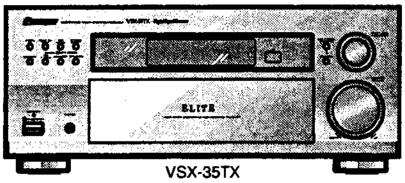
Service Manual

Pioneer



VSX-35TX

ORDER NO.
RRV2351

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-35TX
VSX-33TX

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model		Power Requirement	Remarks
	VSX-35TX	VSX-33TX		
KUXJI/CA	○		AC120V	
KUXJI/CA		○	AC120V	

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1. SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols ▭ (fast operating fuse) and/or ▭ (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible ▭ (fusible de type rapide) et/ou ▭ (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

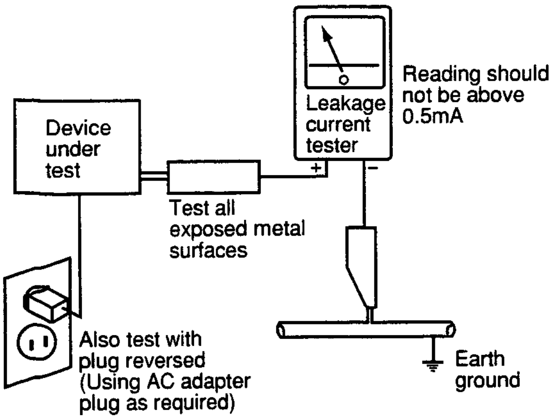
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.


Device under test
Leakage current tester
Reading should not be above 0.5mA
+
–
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

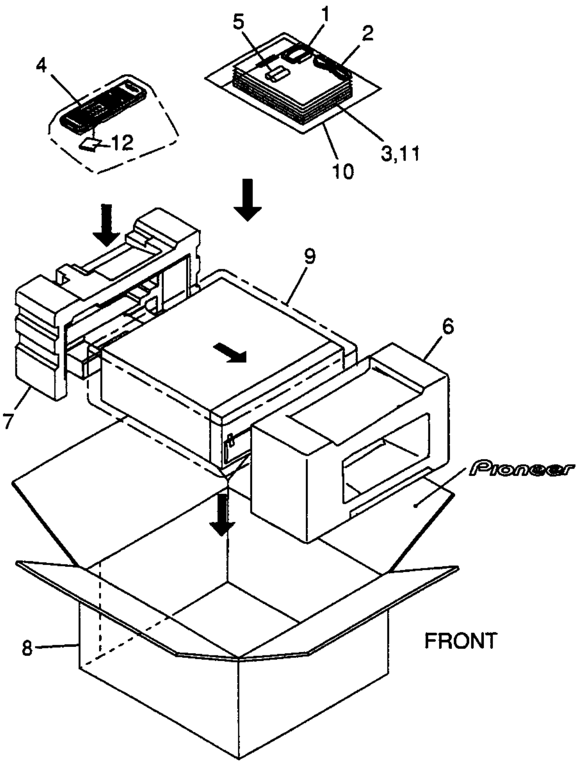
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on the product are used for disassembly.*

2.1 PACKING



(1) PACKING PARTS LIST

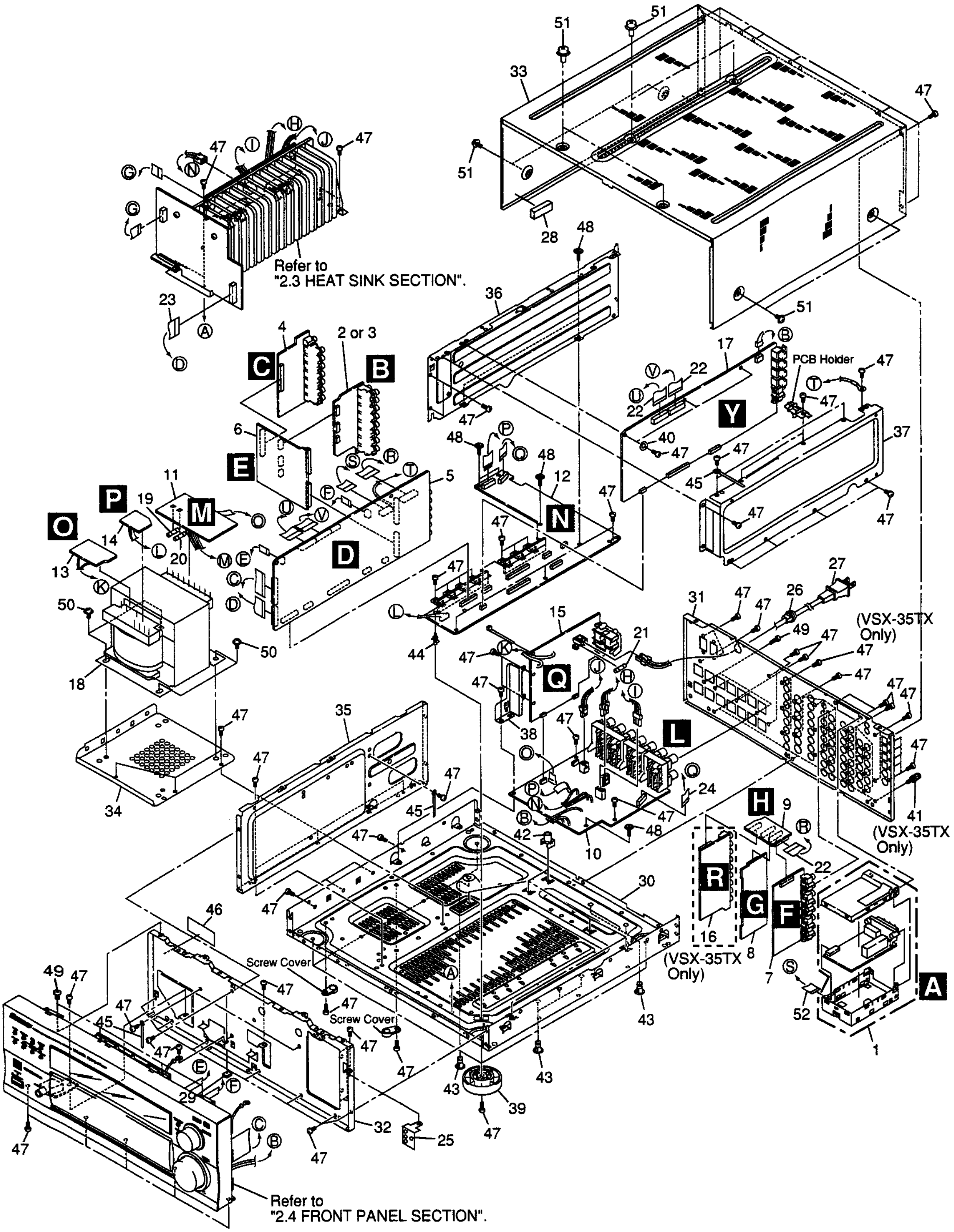
Mark	No.	Description	Part No.
	1	AM Loop Antenna	ATB7009
	2	FM Wire Antenna	ADH7004
	3	Operating Instructions (English)	See Contrast table (2)
	4	Remote Control Unit	See Contrast table (2)
NSP	5	Alkaline Dry Cell Battery (LR6, AA)	VEM1021
	6	Front Pad 35	AHA7287
	7	Rear Pad 35	AHA7288
	8	Packing Case	See Contrast table (2)
	9	Packing Sheet	AHG7010
NSP	10	Polyethylene Bag (230 × 340 × 0.03)	Z21-038
NSP	11	Warranty Card	ARY7007
	12	Battery Cover	See Contrast table (2)

(2) CONTRAST TABLE

VSX-35TX and VSX-33TX are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			VSX-35TX	VSX-33TX	
	3	Operating Instructions (English)	ARB7222	ARB7223	
	4	Remote Control Unit (35TX)	AXD7266	Not used	
	4	Remote Control Unit (33TX)	Not used	AXD7267	
	8	Packing Case 35TX	AHD7860	Not used	
	8	Packing Case 33TX	Not used	AHD7861	
	12	Battery Cover	AZN7841	AZN7826	

2.2 EXTERIOR SECTION


51
51
33
47
51
28
48
47
47
Refer to
"2.3 HEAT SINK SECTION".
23
36
51
4
2 or 3
C
B
17
22
22
PCB Holder
47
Y
47
40
47
47
37
6
E
48
48
12
5
45
47
47
11
P
19
M
O
14
20
13
D
N
47
47
47
50
31
47
47
26
27
15
21
49
47
(VSX-35TX
Only)
44
50
18
47
47
47
47
Q
L
47
35
38
47
47
34
47
47
45
24
H
9
41
(VSX-35TX
Only)
42
47
48
10
47
30
22
R
G
F
16
8
7
(VSX-35TX
Only)
46
Screw Cover
52
A
1
49
47
47
47
45
47
Screw Cover
47
43
43
47
29
43
39
32
25
47
47
47
Refer to
"2.4 FRONT PANEL SECTION".

(1) EXTERIOR PARTS LIST

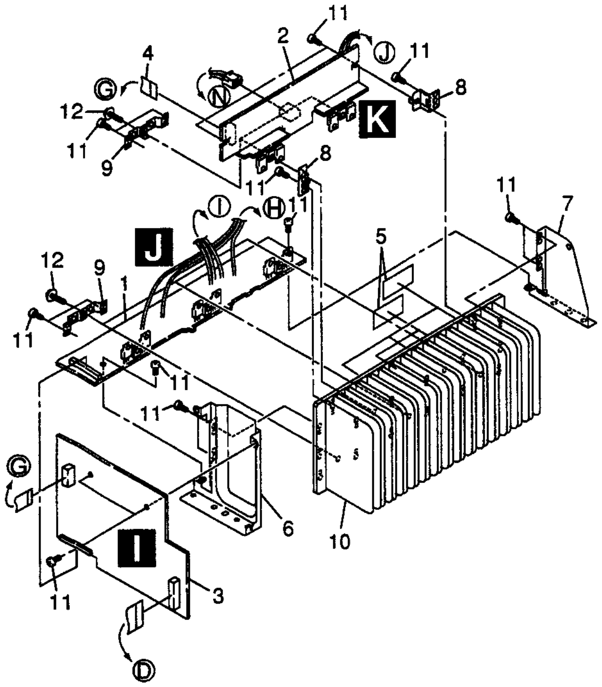
Mark	No.	Description	Part No.
	1	FM/AM TUNER Module	AXQ7231
	2	EX I/O Assy	See Contrast table (2)
	3	5.1CH I/O Assy	See Contrast table (2)
	4	INPUT Assy	See Contrast table (2)
	5	MAIN CONTROL Assy	See Contrast table (2)
	6	A-CONNECTION Assy	See Contrast table (2)
	7	COMPOSITE Assy	See Contrast table (2)
	8	S VIDEO Assy	See Contrast table (2)
	9	V-CONNECTION Assy	See Contrast table (2)
	10	SP/PS Assy	See Contrast table (2)
	11	TRANS 2-1 Assy	AWX7572
	12	REGULATOR Assy	AWX7562
	13	TRANS 2-2 Assy	See Contrast table (2)
NSP	14	TRANS 1 Assy	AWX7564
	15	PRIMARY Assy	AWX7563
	16	COMPONENT Assy	See Contrast table (2)
	17	DSP Assy	See Contrast table (2)
⚠	18	Power Transformer (T1)	ATS7284
⚠	19	Fuse (FU4 : 2.5A)	REK1112
⚠	20	Fuse (FU5 : 2.5A)	REK1112
⚠	21	Fuse (FU1 : 10A)	VEK1029
	22	20P Flexible Cable/60V	ADD7241
	23	22P Flexible Cable/60V	ADD7243
	24	14P Flexible Cable/60V	ADD7244
	25	SE Angle 35	ANG7335
	26	Cord Stopper	CM-22C
⚠	27	Power Cord	VDG1075
	28	Spacer 35 (3 × 10 × 40)	AEB7210
	29	Cushion 8 × 8	AED7046
NSP	30	Under Base	ANA7113
	31	Rear Panel	See Contrast table (2)
NSP	32	Panel Stay 35	AND7035
	33	Bonnet 35	AZN7835
	34	Trans Frame 35	ANG7292
	35	Trans Shield 35	ANG7293
	36	DSP Shield 35 A	ANG7295
	37	DSP Shield 35 B	ANG7296
	38	Primary Angle 35	ANG7301
	39	Insulator	PNW2766
	40	Fiber Washer	VEC1254
	41	Earth Terminal	See Contrast table (2)
	42	PCB Mold	AMR2534
	43	Card Spacer	DNK2769
	44	Locking Card Spacer	PNW2917
	45	Cord Clamper	RNH-184
	46	65 Label	ARW7050
	47	Screw	BBZ30P080FZK
	48	Screw	IBZ30P150FCC
	49	Screw	IBZ30P100FCC
	50	Screw	ABA7066
	51	Screw	FBT40P080FZK
	52	13P Flexible Cable/60V	ADD7242

(2) CONTRAST TABLE

VSX-35TX and VSX-33TX are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			VSX-35TX	VSX-33TX	
	2	EX I/O Assy	AWX7568	Not used	
	3	5.1CH I/O Assy	Not used	AWX7613	
	4	INPUT Assy	AWX7573	AWX7585	
	5	MAIN CONTROL Assy	AWX7560	AWX7610	
	6	A-CONNECTION Assy	AWX7566	AWX7619	
	7	COMPOSITE Assy	AWX7581	AWX7617	
	8	S VIDEO Assy	AWX7580	AWX7616	
	9	V-CONNECTION Assy	AWX7567	AWX7717	
	10	SP/PS Assy	AWX7571	AWX7721	
	13	TRANS 2-2 Assy	AWX7565	AWX7720	
	16	COMPONENT Assy	AWX7582	Not used	
	17	DSP Assy	AWX7561	AWX7611	
	31	Rear Panel 35	ANC7910	Not used	
	31	Rear Panel 33	Not used	ANC7911	
	41	Earth Terminal	AKE-031	Not used	

2.3 HEAT SINK SECTION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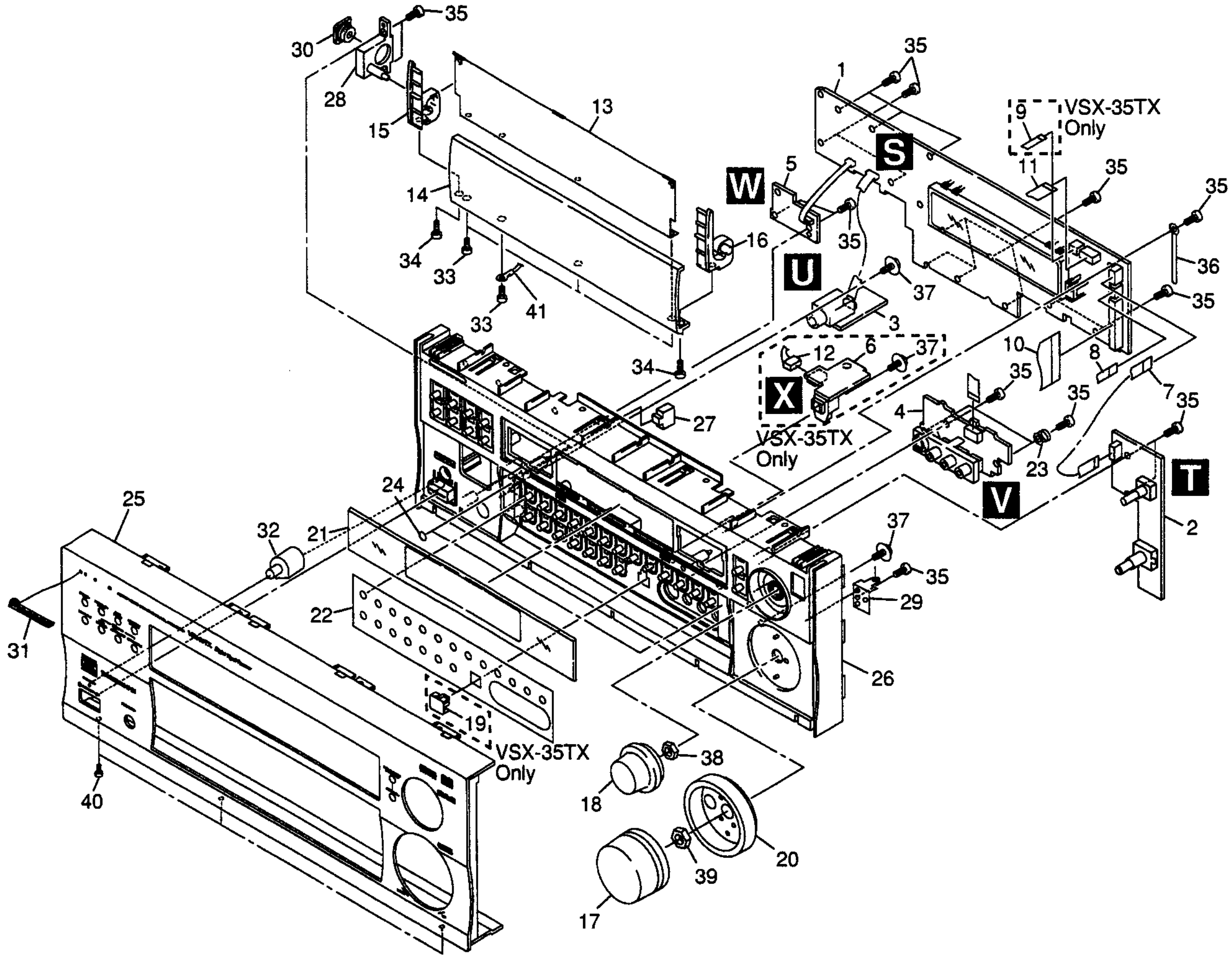
• HEAT SINK SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	FRONT AMP Assy	AWX7569
	2	REAR AMP Assy	AWX7570
	3	V-AMP Assy	AWX7578
	4	13P Flexible Cable/60V	ADD7242
	5	Mica Sheet 35	AEE7035
	6	H.S Angle 35 F	ANG7297
	7	H.S Angle 35 R	ANG7298
	8	PCB Angle 35	ANG7299
	9	FET Angle 35	ANG7300
NSP	10	Heat Sink 35	ANH7126
	11	Screw	BBZ30P080FZK
	12	Screw	IBZ30P150FCC

2.4 FRONT PANEL SECTION


35
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VSX-35TX Only
S
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W
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U
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X
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35
4
VSX-35TX Only
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T
V
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19
VSX-35TX Only
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(1) FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	DISPLAY Assy	See Contrast table (2)
	2	VOLUME-CONT Assy	AWX7577
	3	HEADPHONE Assy	AWX7602
	4	FRONT AV Assy	AWX7579
	5	STAND BY Assy	AWX7576
	6	FRONT DIGIN Assy	See Contrast table (2)
	7	7P Flexible Cable/60V	ADD7236
	8	5P Flexible Cable/60V	ADD7237
	9	4P Flexible Cable/60V	See Contrast table (2)
	10	32P Flexible Cable/60V	ADD7239
	11	8P Flexible Cable/60V	ADD7240
	12	5P Shield Wire with Housing	See Contrast table (2)
	13	Door Stay 35	AAH7063
	14	Door 35	AMB7692
	15	Door Hinge 35 L	AMR7291
	16	Door Hinge 35 R	AMR7293
	17	Volume Knob 26	AAB7193
	18	Rotary Knob 35	AAB7226
	19	Digital Cap 35	See Contrast table (2)
	20	Volume Ring 26	AAK7623
	21	Window	See Contrast table (2)
	22	Door Sheet	See Contrast table (2)
NSP	23	Earth Spring 35	ABH7193
	24	Cushion Circle 6B	AED7044
	25	Front Panel	See Contrast table (2)
	26	Panel Base 35	AMB7695
	27	Magnet 35	AMF7007
	28	Door Shaft 35	AMR7295
	29	SE Angle 35	ANG7334
	30	Damper Assy (100)	AXA7089
	31	Pioneer Badge	PAM1776
	32	LED Lens	PNW2019
	33	Screw	BBZ26P060FZK
	34	Screw	BPZ26P080FMC
	35	Screw	BPZ30P080FMC
	36	Cord Clamper	RNH-184
	37	Screw	ABA7009
	38	Nut	MK70FUC
	39	Nut	MK90FUC
	40	Screw	BBZ30P080FZK
	41	Earth Lead Wire	ADH7022

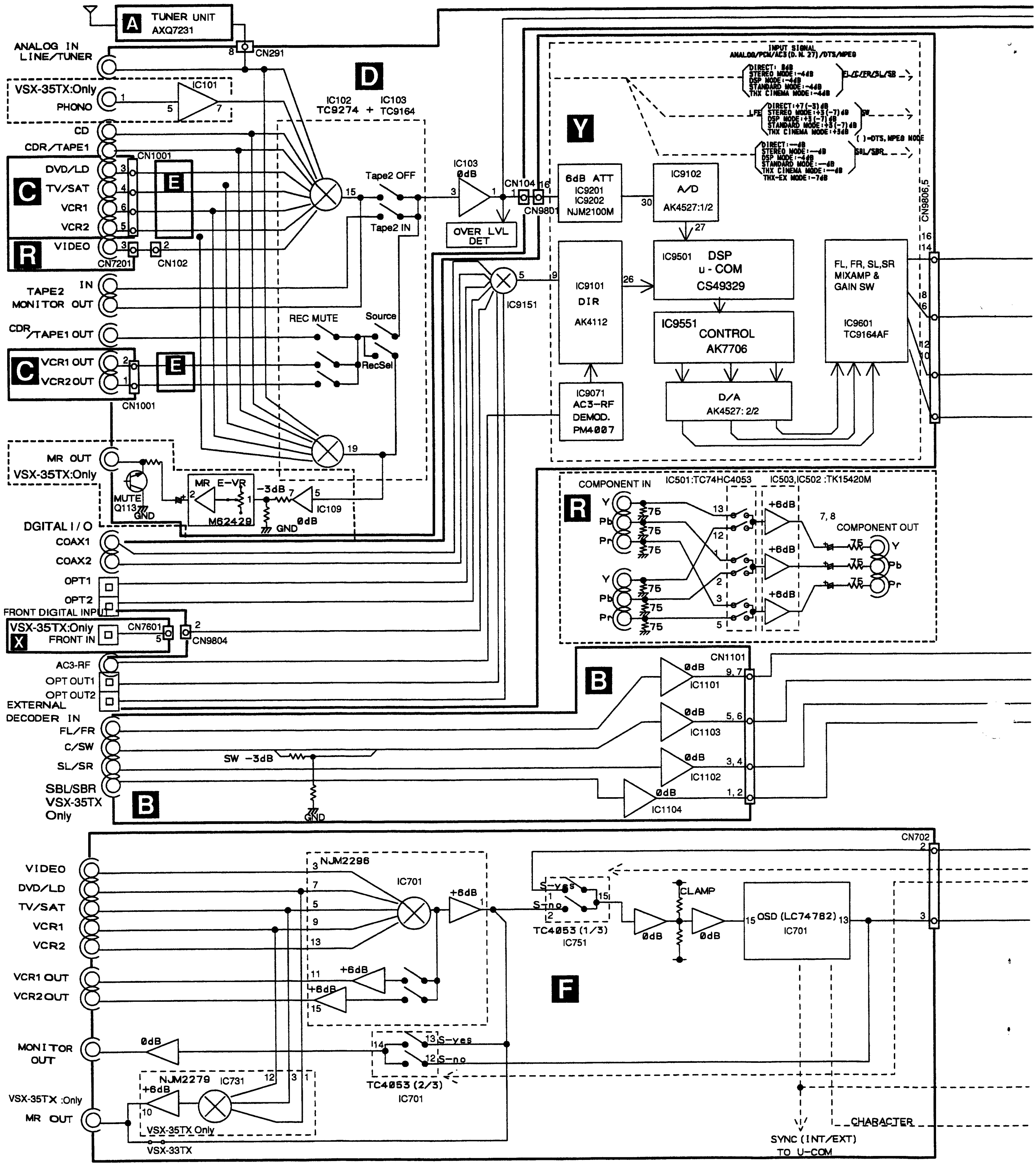
(2) CONTRAST TABLE

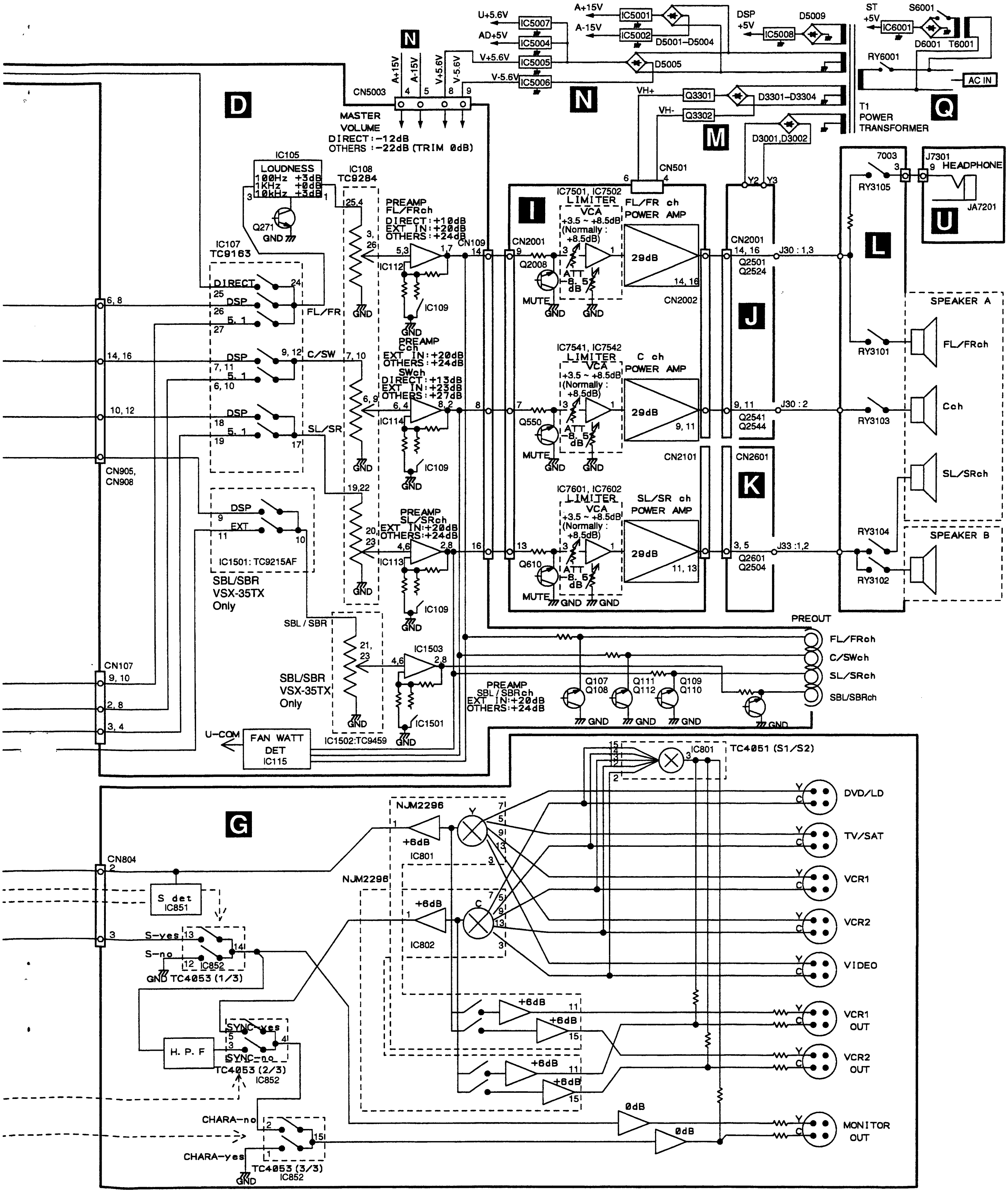
VSX-35TX and VSX-33TX are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			VSX-35TX	VSX-33TX	
	1	DISPLAY Assy	AWX7574	AWX7614	
	6	FRONT DIGIN Assy	AWX7648	Not used	
	9	4P Flexible Cable/60V	ADD7238	Not used	
	12	5P Shield Wire with Housing	ADX7344	Not used	
	19	Digital Cap 35	AAD7576	Not used	
	21	Window 35R	AAK7769	Not used	
	21	Window 33R	Not used	AAK7733	
	22	Door Sheet 35	AAK7783	Not used	
	22	Door Sheet 33	Not used	AAK7775	
	25	Front Panel 35	AMB7691	Not used	
	25	Front Panel 33	Not used	AMB7714	

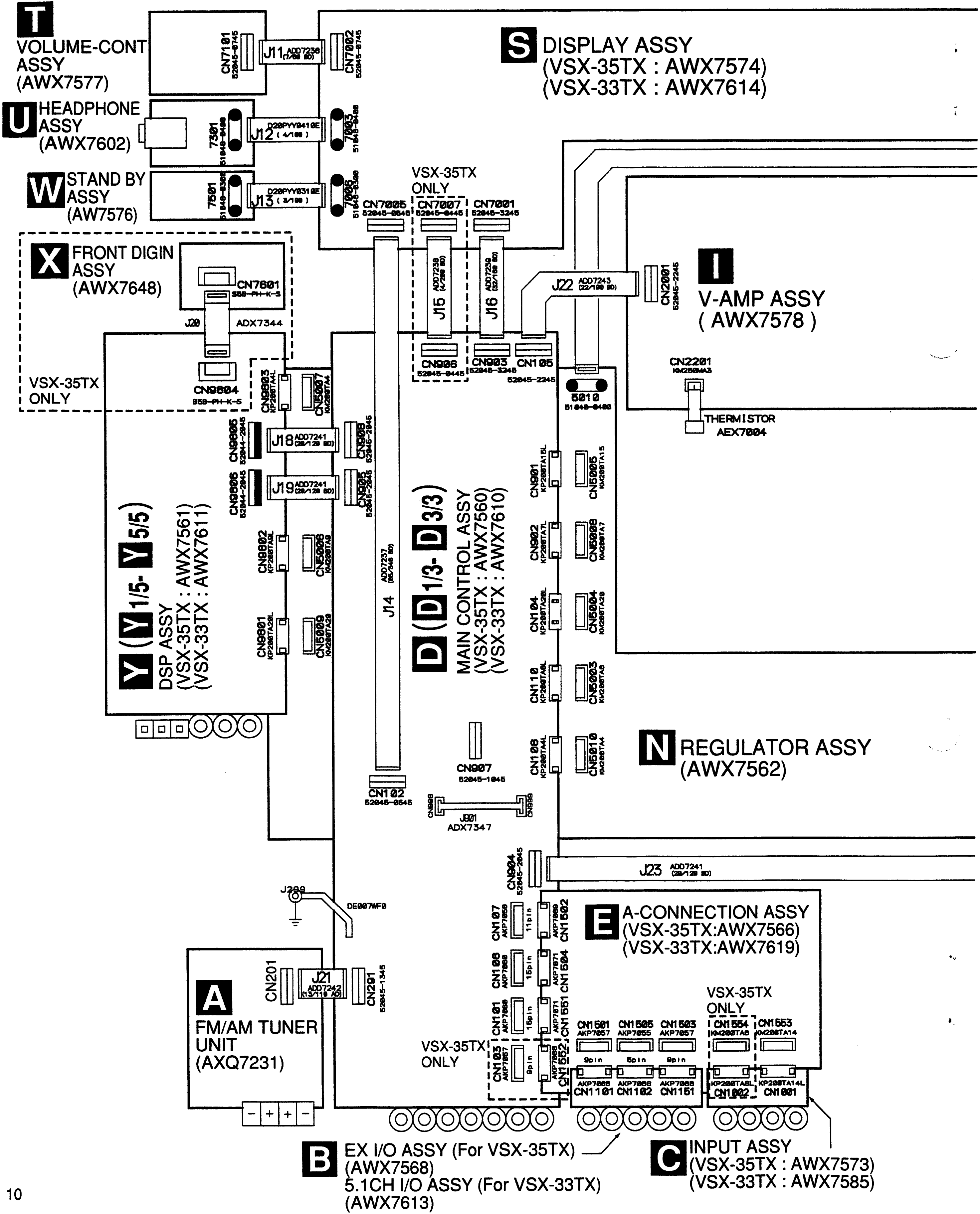
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

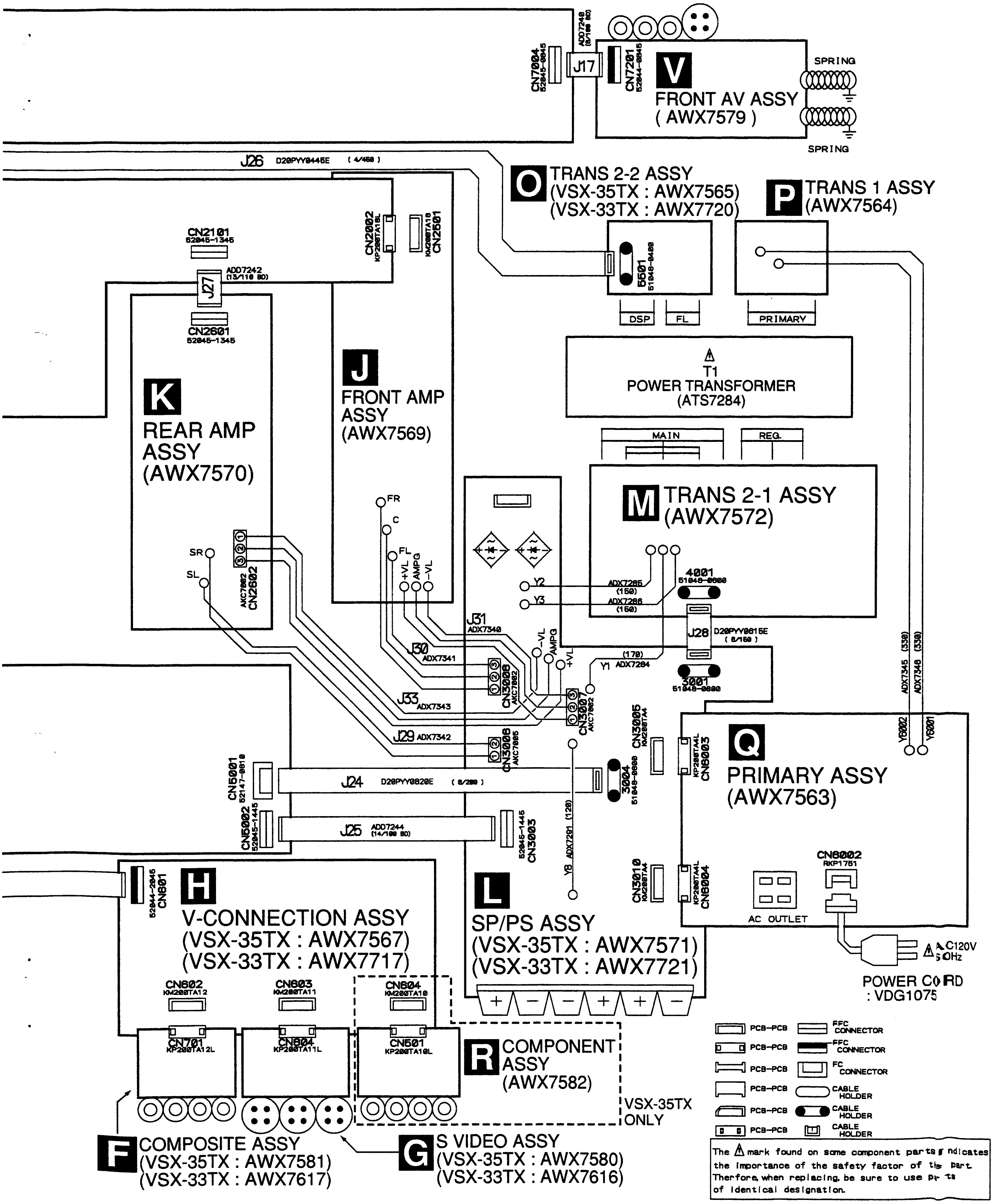

A TUNER UNIT AXQ7231
CN291
ANALOG IN LINE/TUNER
VSX-35TX:Only
PHONO
IC101
CD
CDR/TAPE1
CN1001
DVD/LD
TV/SAT
VCR1
VCR2
VIDEO
C
E
R
CN7201
CN102
D
IC102 IC103
TC9274 + TC9164
Tape2 OFF
Tape2 IN
IC103 0dB
CN104
CN9801
OVER LVL DET
IC9151
TAPE2 MONITOR IN OUT
CDR/TAPE1 OUT
REC MUTE
Source
RecSel
VCR1 OUT
VCR2 OUT
CN1001
MR OUT
VSX-35TX:Only
MUTE Q113
GND
MR E-VR
M62429
-3dB
IC109
0dB
GND
DGITAL I/O
COAX1
COAX2
OPT1
OPT2
FRONT DIGITAL INPUT
VSX-35TX:Only
X
FRONT IN
CN7601
CN9804
AC3-RF
OPT OUT1
OPT OUT2
EXTERNAL DECODER IN
FL/FR
C/SW
SL/SR
SBL/SBR VSX-35TX Only
SW -3dB
GND
B
Y
INPUT SIGNAL
ANALOG/PCM/AC3(D.N. 27)/DTS/MPEG
DIRECT: 0dB
STEREO MODE:-4dB
DSP MODE:-4dB
STANDARD MODE:-4dB
THX CINEMA MODE:-4dB
FL/C/FR/SL/SB
LFE
DIRECT:+7(-3)dB
STEREO MODE:+3(-7)dB
DSP MODE:+3(-7)dB
STANDARD MODE:+3(-7)dB
THX CINEMA MODE:+3dB
SW
( )-DTS, MPEG MODE
DIRECT:—dB
STEREO MODE:—dB
DSP MODE:-4dB
STANDARD MODE:—dB
THX CINEMA MODE:—dB
THX-EX MODE:-7dB
SBL/SBR
6dB ATT IC9201 IC9202 NJM2100M
IC9102 A/D AK4527:1/2
IC9501 DSP u-COM CS49329
IC9101 DIR AK4112
IC9551 CONTROL AK7706
D/A AK4527: 2/2
IC9071 AC3-RF DEMOD. PM4007
FL, FR, SL,SR MIXAMP & GAIN SW
IC9601 TC9164AF
CN9806,5
COMPONENT IN
IC501:TC74HC4053
IC503,IC502 :TK15420M
R
Y Pb Pr
75
+6dB
7, 8
COMPONENT OUT
B
CN1101
0dB IC1101
0dB IC1103
0dB IC1102
0dB IC1104
9, 7
5, 6
3, 4
1, 2
CN702
VIDEO
DVD/LD
TV/SAT
VCR1
VCR2
VCR1 OUT
VCR2 OUT
NJM2296
IC701
+6dB
S-yes
S-no
TC4053 (1/3) IC751
CLAMP
0dB
OSD (LC74782) IC701
F
MONITOR OUT
0dB
TC4053 (2/3) IC701
VSX-35TX :Only MR OUT
NJM2279 IC731
+6dB
VSX-35TX Only
VSX-33TX
SYNC (INT/EXT) TO U-COM
CHARACTER


A
B
C
D
U+5.6V
AD+5V
V+5.6V
V-5.6V
IC5007
IC5004
IC5005
IC5006
A+15V
A-15V
IC5001
IC5002
D5001–D5004
D5005
DSP +5V
IC5008
D5009
ST +5V
IC6001
S6001
D6001
T6001
RY6001
AC IN
VH+
VH-
Q3301
Q3302
D3301–D3304
D3001,D3002
T1 POWER TRANSFORMER
N
M
Q
D
CN5003
MASTER VOLUME
DIRECT : -12dB
OTHERS : -22dB (TRIM 0dB)
IC105
LOUDNESS
100Hz +3dB
1KHz +0dB
10kHz +3dB
Q271
IC108 TC9284
IC107 TC9163
DIRECT
DSP
5.1
FL/FR
C/SW
SL/SR
PREAMP FL/FRch
DIRECT : +10dB
EXT IN : +20dB
OTHERS : +24dB
IC112
IC109
PREAMP Cch
EXT IN : +20dB
OTHERS : +24dB
SWch
DIRECT : +13dB
EXT IN : +23dB
OTHERS : +27dB
IC114
PREAMP SL/SRch
EXT IN : +20dB
OTHERS : +24dB
IC113
CN109
CN905, CN908
IC1501: TC9215AF
EXT
SBL/SBR VSX-35TX Only
SBL / SBR
IC1503
IC1502:TC9459
PREAMP SBL / SBRch
EXT IN : +20dB
OTHERS : +24dB
CN107
U-COM
FAN WATT DET IC115
CN501
I
IC7501, IC7502 LIMITER VCA
+3.5 ~ +8.5dB (Normally : +8.5dB)
ATT -8.5dB
FL/FR ch POWER AMP
29dB
CN2001
Q2008
MUTE
CN2002
IC7541, IC7542 LIMITER VCA
C ch POWER AMP
Q550
CN2101
IC7601, IC7602 LIMITER VCA
SL/SR ch POWER AMP
Q610
J
K
CN2601
Q2501 Q2524
Q2541 Q2544
Q2601 Q2504
J30 : 1,3
J30 : 2
J33 : 1,2
L
7003
RY3105
J7301
HEADPHONE
JA7201
U
SPEAKER A
FL/FRch
Cch
SL/SRch
SPEAKER B
RY3101
RY3103
RY3104
RY3102
PREOUT
FL/FRch
C/SWch
SL/SRch
SBL/SBRch
Q107 Q108
Q111 Q112
Q109 Q110
GND
G
CN804
S det IC851
S-yes
S-no
IC852
TC4053 (1/3)
H. P. F
SYNC-yes
SYNC-no
TC4053 (2/3)
CHARA-no
CHARA-yes
TC4053 (3/3)
NJM2296
+6dB
IC801
IC802
TC4051 (S1/S2)
DVD/LD
TV/SAT
VCR1
VCR2
VIDEO
VCR1 OUT
VCR2 OUT
MONITOR OUT
0dB
Y
C

3.2 OVERALL WIRING DIAGRAM


T
VOLUME-CONT ASSY (AWX7577)
CN7101 52045-0745
J11 ADD7236 (7/80 BD)
CN7002 52045-0745
S
DISPLAY ASSY
(VSX-35TX : AWX7574)
(VSX-33TX : AWX7614)
U
HEADPHONE ASSY (AWX7602)
7301 51048-0400
J12 D20PYY0410E (4/100)
7003 51048-0400
W
STAND BY ASSY (AW7576)
7501 51048-0300
J13 D20PYY0310E (3/100)
7006 51048-0300
VSX-35TX ONLY
CN7005 52045-0545
CN7007 52045-0445
CN7001 52045-3245
X
FRONT DIGIN ASSY (AWX7648)
CN7601 S5B-PH-K-S
J20
ADX7344
VSX-35TX ONLY
CN9804 B5B-PH-K-S
J15 ADD7238 (4/200 BD)
J16 ADD7239 (32/180 BD)
J22 ADD7243 (22/180 BD)
CN2001 52045-2245
I
V-AMP ASSY (AWX7578)
CN906 52045-0445
CN903 52045-3245
CN105 52045-2245
5010 51048-0400
CN2201 KM250MA3
THERMISTOR AEX7004
CN9803 KP200TA4L
CN5007 KM200TA4
CN9805 52044-2045
J18 ADD7241 (20/120 BD)
CN908 52045-2045
CN9806 52044-2045
J19 ADD7241 (20/120 BD)
CN905 52045-2045
CN901 KP200TA15L
CN5005 KM200TA15
Y (Y1/5- Y5/5)
DSP ASSY
(VSX-35TX : AWX7561)
(VSX-33TX : AWX7611)
CN9802 KP200TA9L
CN5006 KM200TA9
ADD7237 (05/340 BD)
J14
D (D1/3- D3/3)
MAIN CONTROL ASSY
(VSX-35TX : AWX7560)
(VSX-33TX : AWX7610)
CN902 KP200TA7L
CN5008 KM200TA7
CN104 KP200TA20L
CN5004 KM200TA20
CN9801 KP200TA20L
CN5009 KM200TA20
CN110 KP200TA6L
CN5003 KM200TA6
CN108 KP200TA4L
CN5010 KM200TA4
N
REGULATOR ASSY (AWX7562)
CN907 52045-1045
CN102 52045-0545
CN998
J901 ADX7347
CN999
CN904 52045-2045
J23 ADD7241 (20/120 BD)
J209
DE007WF0
CN107 AKP7056
11pin
AKP7069 CN1502
E
A-CONNECTION ASSY
(VSX-35TX:AWX7566)
(VSX-33TX:AWX7619)
CN201
J21 ADD7242 (13/110 AD)
CN291 52045-1345
CN106 AKP7058
15pin
AKP7071 CN1504
A
FM/AM TUNER UNIT (AXQ7231)
CN101 AKP7058
15pin
AKP7071 CN1551
VSX-35TX ONLY
CN1501 AKP7057
CN1505 AKP7055
CN1503 AKP7057
VSX-35TX ONLY
CN1554 KM200TA8
CN1553 KM200TA14
VSX-35TX ONLY
CN103 AKP7057
9pin
AKP7068 CN1552
9pin
5pin
9pin
AKP7068 CN1101
AKP7066 CN1102
AKP7068 CN1151
KP200TA8L CN1002
KP200TA14L CN1001
B
EX I/O ASSY (For VSX-35TX)
(AWX7568)
5.1CH I/O ASSY (For VSX-33TX)
(AWX7613)
C
INPUT ASSY
(VSX-35TX : AWX7573)
(VSX-33TX : AWX7585)

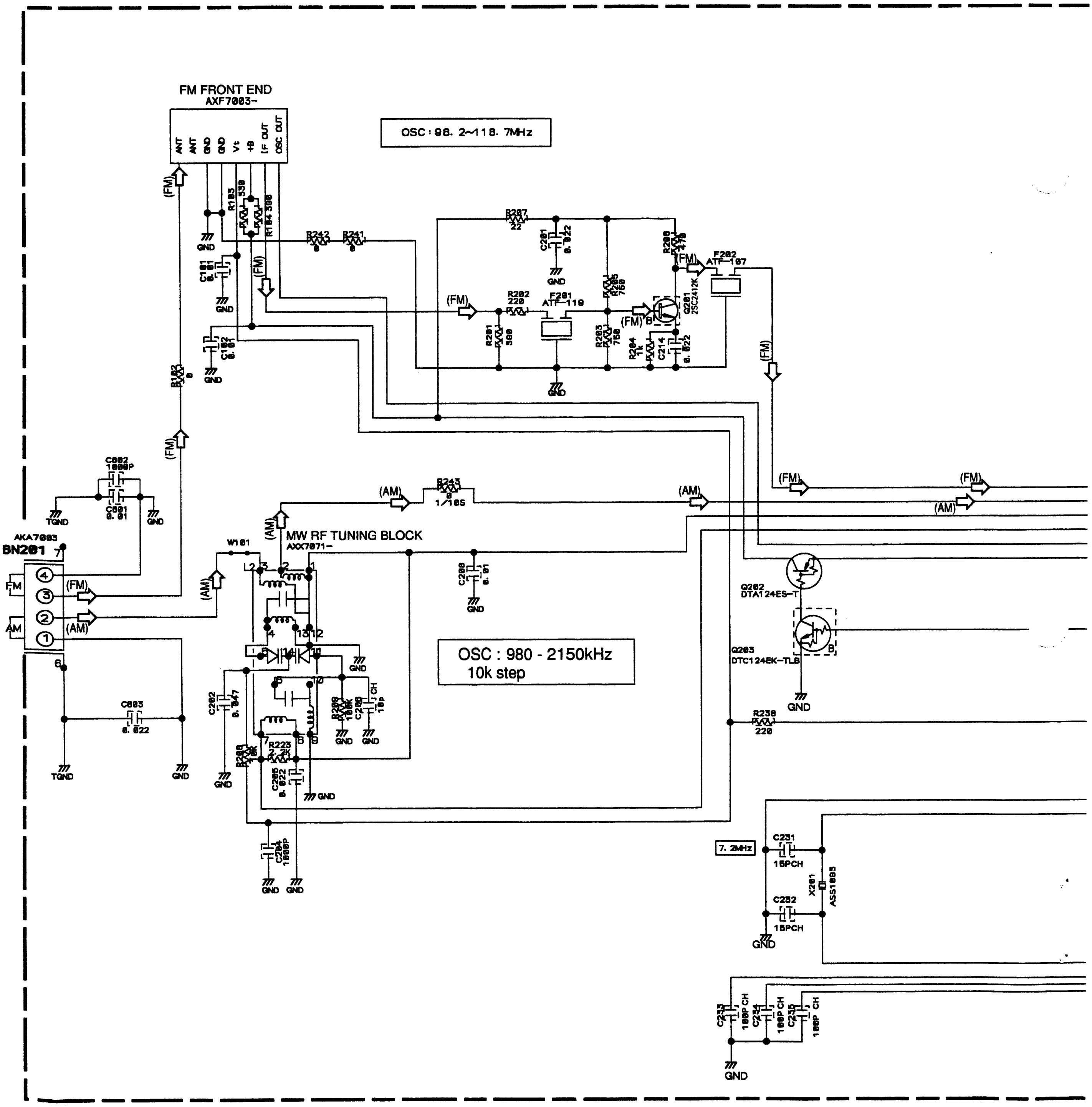
Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".


A
B
C
D
V
FRONT AV ASSY
(AWX7579)
SPRING
SPRING
CN7004
52045-0845
J17
ADD7240
CN7201
52044-0845
J26
D20PYY0445E
(4/460)
O
TRANS 2-2 ASSY
(VSX-35TX : AWX7565)
(VSX-33TX : AWX7720)
P
TRANS 1 ASSY
(AWX7564)
5501
51048-0400
DSP
FL
PRIMARY
T1
POWER TRANSFORMER
(ATS7284)
MAIN
REG.
M
TRANS 2-1 ASSY
(AWX7572)
4001
51048-0800
ADX7285
(150)
ADX7286
(150)
Y2
Y3
J28
D20PYY0815E
(8/150)
(170)
Y1
ADX7284
3001
51048-0800
CN2101
52045-1345
ADD7242
(13/110 BD)
J27
CN2601
52045-1345
CN2002
KP200TA18L
KM200TA18
CN2501
K
REAR AMP ASSY
(AWX7570)
J
FRONT AMP ASSY
(AWX7569)
FR
C
FL
+VL
AMPG
-VL
SR
SL
AKC7002
CN2602
J31
ADX7340
J30
ADX7341
J33
ADX7343
J29
ADX7342
CN3008
AKC7002
-VL
AMPG
+VL
CN3007
AKC7002
CN3006
AKC7005
CN3005
KM200TA4
CN6003
KP200TA4L
Q
PRIMARY ASSY
(AWX7563)
ADX7345 (330)
ADX7346 (330)
Y6002
Y6001
CN5001
52147-0810
J24
D20PYY0820E
(8/280)
3004
51048-0800
CN5002
52045-1445
J25
ADD7244
(14/100 BD)
52045-1445
CN3003
Y8
ADX7281 (120)
CN3010
KM200TA4
CN6004
KP200TA4L
CN6002
RKP1751
AC OUTLET
AC120V
60Hz
POWER CORD
: VDG1075
52044-2045
CN601
H
V-CONNECTION ASSY
(VSX-35TX : AWX7567)
(VSX-33TX : AWX7717)
L
SP/PS ASSY
(VSX-35TX : AWX7571)
(VSX-33TX : AWX7721)
+
−
−
+
+
−
CN602
KM200TA12
CN603
KM200TA11
CN604
KM200TA10
CN701
KP200TA12L
CN804
KP200TA11L
CN501
KP200TA10L
R
COMPONENT ASSY
(AWX7582)
VSX-35TX ONLY
F
COMPOSITE ASSY
(VSX-35TX : AWX7581)
(VSX-33TX : AWX7617)
G
S VIDEO ASSY
(VSX-35TX : AWX7580)
(VSX-33TX : AWX7616)
PCB-PCB
PCB-PCB
PCB-PCB
PCB-PCB
PCB-PCB
PCB-PCB
FFC CONNECTOR
FFC CONNECTOR
FC CONNECTOR
CABLE HOLDER
CABLE HOLDER
CABLE HOLDER

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therfore, when replacing, be sure to use parts of identical designation.

3.3 FM/AM TUNER UNIT

A FM/AM TUNER UNIT (AXQ7231)


FM FRONT END
AXF7003-
ANT
ANT
GND
GND
Vt
+B
IF OUT
OSC OUT
OSC : 98. 2~118. 7MHz
(FM)
R103 330
R104 390
R242 0
R241 0
C101 0. 01
C102 0. 01
R102 0
GND
R207 22
C201 0. 022
R206 270
F202 ATF-107
R202 220
F201 ATF-119
R205 750
R201 500
R203 750
R204 1k
C214 0. 022
Q201 2SC2412K
B
(FM)
C802 1000P
C801 0. 01
TGND
AKA7003
BN201
7
FM
AM
④
③
②
①
6
(AM)
C803 0. 022
W101
MW RF TUNING BLOCK
AXX7071-
R243 0 1/10S
C208 0. 01
C202 0. 047
R209 100K
C206 CH 10p
R208
R223 2. 2K
C205 0. 022
C204 1000P
OSC : 980 - 2150kHz
10k step
Q202 DTA124ES-T
Q203 DTC124EK-TLB
R238 220
7. 2MHz
C231 15PCH
C232 15PCH
X201 ASS1003
C233 100P CH
C234 100P CH
C235 100P CH

Notes

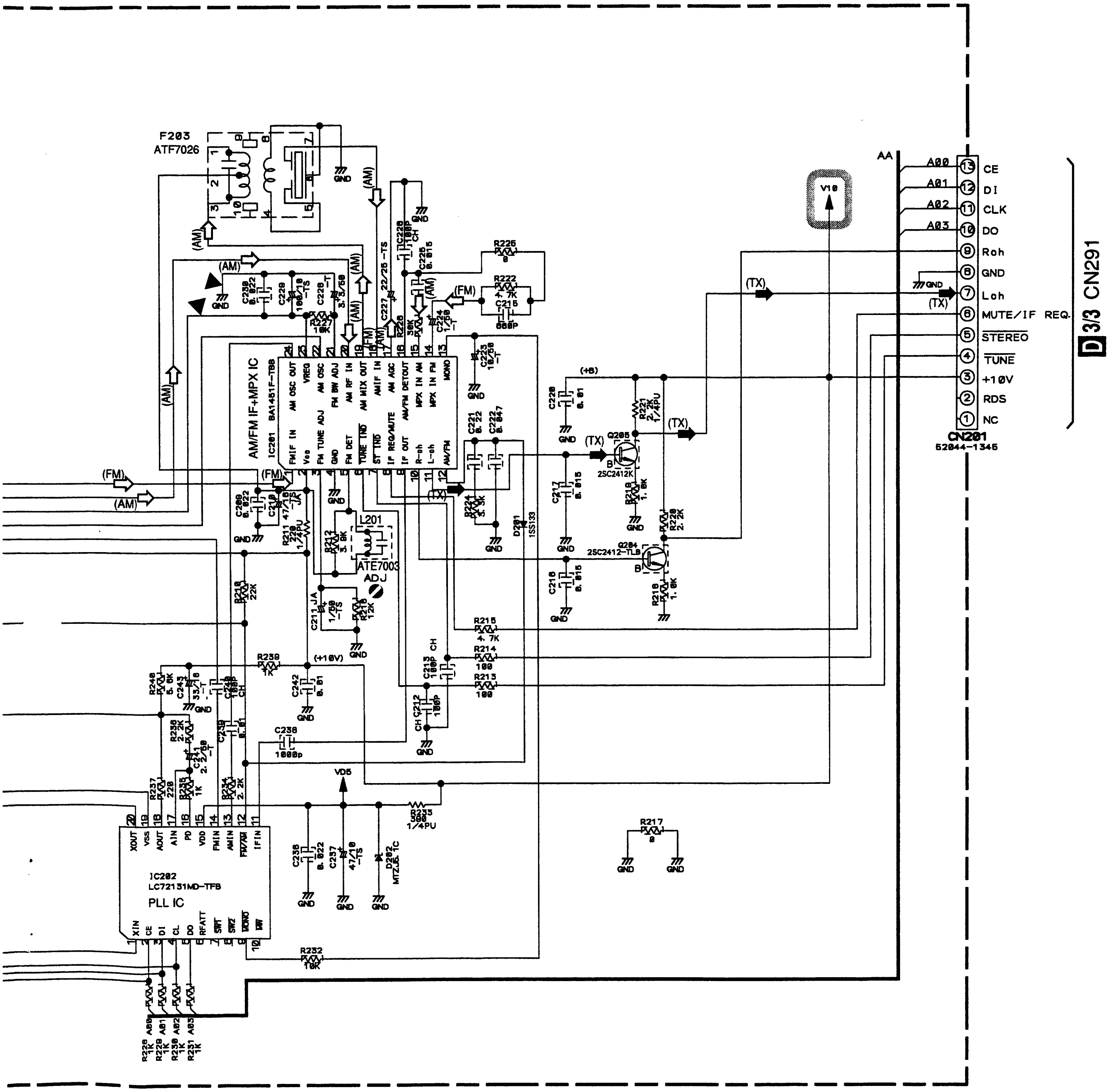
1. RESISTORS
   Indicated in Ω, 1/16W±5% Tolerance unless otherwise noted K;KΩ, M;MΩ.
2. CAPACITORS
   Indicated in Capacity(μF)/VOLTAGE (V) unless otherwise noted P;PF.
3. DIODES
   No mark diode is 1SS133.

▭ : The power supply is shown with the marked box.

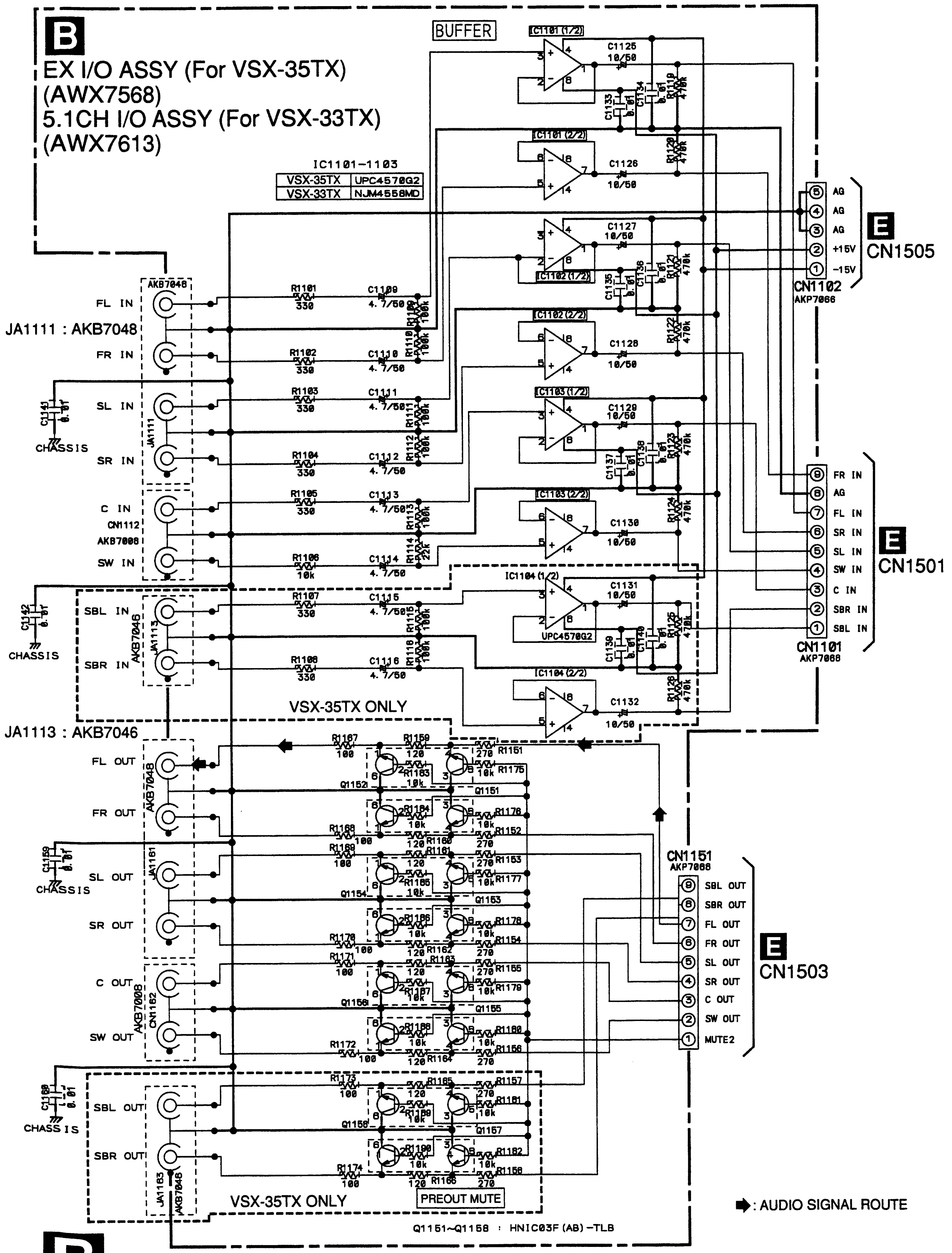
(TX) ➡ : AUDIO SIGNAL ROUTE (TUNER)

(AM) ⇨ : AM SIGNAL ROUTE

(FM) ⇨ : FM SIGNAL ROUTE


F203
ATF7026
AM/FM IF+MPX IC
IC201 BA1451F-TBB
FMIF IN
Vcc
FM TUNE ADJ
GND
FM DET
TUNE IND
ST IND
IF REQ/MUTE
IF OUT
R-ch
L-ch
AM/FM
MONO
MPX IN FM
MPX IN AM
AM/FM DETOUT
AMIF IN
AM AGC
AM MIX OUT
AM RF IN
FM BW ADJ
AM OSC
VREG
AM OSC OUT
L201
ATE7003
ADJ
IC202
LC72131MD-TFB
PLL IC
XOUT
VSS
AOUT
AIN
PD
VDD
FMIN
AMIN
FM/AM
IFIN
XIN
CE
DI
CL
DO
RFATT
SW1
SW2
MONO
IN
AA
A00
A01
A02
A03
V10
VD5
(+B)
(+10V)
Q205
2SC2412K
Q204
2SC2412-TLB
D201
1SS133
D202
MTZJ5.1C
R225
R222 4.7K
C215 680P
R221 2.2K 1/4PU
R218 1.8K
R220 2.2K
R219 1.8K
R215 4.7K
R214 100
R213 100
R224 3.3K
R217 0
R232 10K
R233 300 1/4PU
R239 1K
R240 5.6K
R238 2.2K
R237 220
R235 1K
R234 2.2K
R210 22K
R211 470
R212 3.9K
R216 12K
R227 10K
R226 30K
R228 A00 1K
R229 A01 1K
R230 A02 1K
R231 A03 1K
C209 0.022
C210 47/16
C211 1/50
C212 100P
C213 100P
C216 0.015
C217 0.015
C220 0.01
C221 0.22
C222 0.047
C223 10/50
C224 1/50
C225 0.015
C226 100P
C227 22/25
C228 3.3/50
C229 100/10
C230 0.022
C235 0.022
C236 1000P
C237 47/10
C239 0.01
C240 100P
C241 2.2/50
C242 0.01
C243 33/16
GND
CE
DI
CLK
DO
Roh
GND
Loh
MUTE/IF REQ.
STEREO
TUNE
+10V
RDS
NC
CN201
52044-1345
D 3/3 CN291

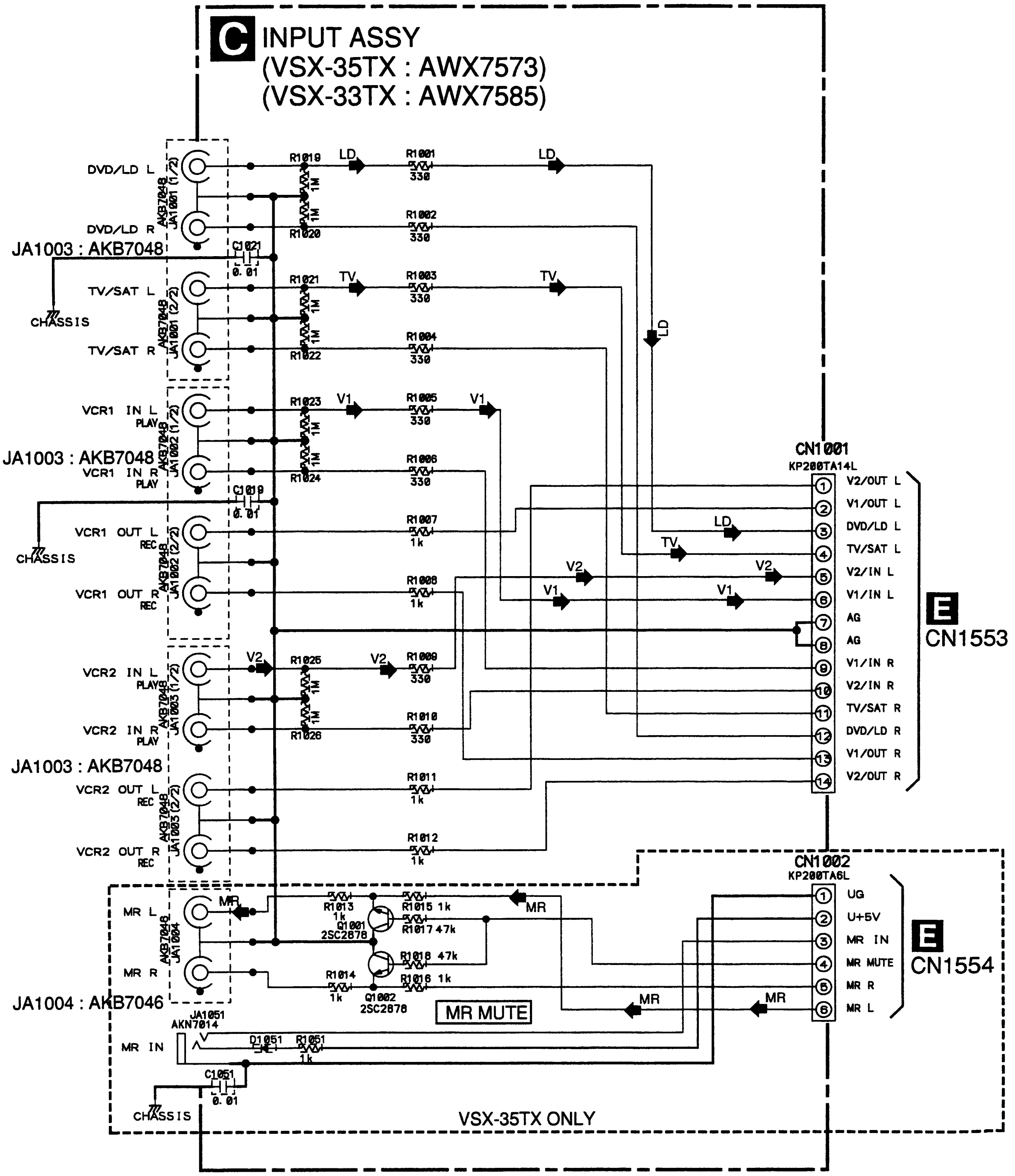
3.4 EX I/O (5.1CH I/O) ASSY



B
EX I/O ASSY (For VSX-35TX)
(AWX7568)
5.1CH I/O ASSY (For VSX-33TX)
(AWX7613)
BUFFER
IC1101 (1/2)
IC1101 (2/2)
IC1102 (1/2)
IC1102 (2/2)
IC1103 (1/2)
IC1103 (2/2)
IC1104 (1/2)
IC1104 (2/2)
UPC4570G2
JA1111 : AKB7048
FL IN
FR IN
SL IN
SR IN
C IN
SW IN
CN1112
AKB7008
SBL IN
SBR IN
JA1113
AKB7046
CHASSIS
VSX-35TX ONLY
JA1113 : AKB7046
FL OUT
FR OUT
SL OUT
SR OUT
C OUT
SW OUT
SBL OUT
SBR OUT
JA1161
CN1162
JA1163
PREOUT MUTE
Q1151~Q1158 : HN1C03F (AB) -TLB
E CN1505
CN1102 AKP7066
AG
AG
AG
+15V
-15V
E CN1501
CN1101 AKP7068
FR IN
AG
FL IN
SR IN
SL IN
SW IN
C IN
SBR IN
SBL IN
E CN1503
CN1151 AKP7068
SBL OUT
SBR OUT
FL OUT
FR OUT
SL OUT
SR OUT
C OUT
SW OUT
MUTE2
➡ : AUDIO SIGNAL ROUTE

IC1101-1103	
VSX-35TX	UPC4570G2
VSX-33TX	NJM4558MD

3.5 INPUT ASSY


C INPUT ASSY
(VSX-35TX : AWX7573)
(VSX-33TX : AWX7585)
DVD/LD L
DVD/LD R
JA1003 : AKB7048
AKB7048 JA1001 (1/2)
AKB7048 JA1001 (2/2)
TV/SAT L
TV/SAT R
CHASSIS
VCR1 IN L PLAY
VCR1 IN R PLAY
AKB7048 JA1002 (1/2)
AKB7048 JA1002 (2/2)
VCR1 OUT L REC
VCR1 OUT R REC
VCR2 IN L PLAY
VCR2 IN R PLAY
AKB7048 JA1003 (1/2)
AKB7048 JA1003 (2/2)
VCR2 OUT L REC
VCR2 OUT R REC
MR L
MR R
AKB7046 JA1004
JA1004 : AKB7046
MR IN
JA1051 AKN7014
D1051
R1051 1k
C1051 0.01
C1021 0.01
C1019 0.01
R1019 1M
R1020 1M
R1021 1M
R1022 1M
R1023 1M
R1024 1M
R1025 1M
R1026 1M
R1001 330
R1002 330
R1003 330
R1004 330
R1005 330
R1006 330
R1007 1k
R1008 1k
R1009 330
R1010 330
R1011 1k
R1012 1k
R1013 1k
R1014 1k
R1015 1k
R1016 1k
R1017 47k
R1018 47k
Q1001 2SC2878
Q1002 2SC2878
MR MUTE
LD
TV
V1
V2
MR
CN1001 KP200TA14L
1 V2/OUT L
2 V1/OUT L
3 DVD/LD L
4 TV/SAT L
5 V2/IN L
6 V1/IN L
7 AG
8 AG
9 V1/IN R
10 V2/IN R
11 TV/SAT R
12 DVD/LD R
13 V1/OUT R
14 V2/OUT R
E CN1553
CN1002 KP200TA6L
1 UG
2 U+5V
3 MR IN
4 MR MUTE
5 MR R
6 MR L
E CN1554
VSX-35TX ONLY

➡: AUDIO SIGNAL ROUTE

LD➡: AUDIO SIGNAL ROUTE (LD)

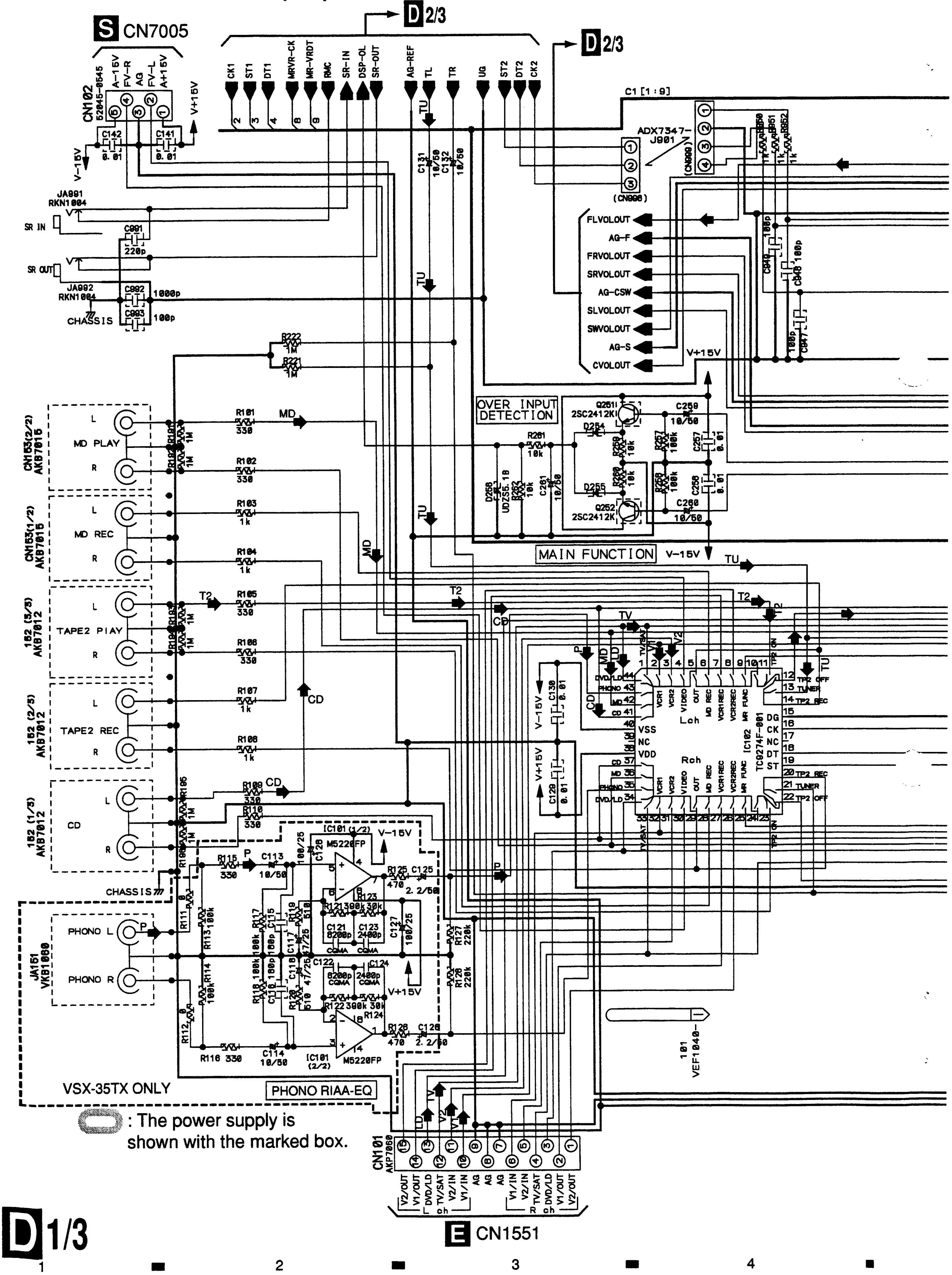
TV➡: AUDIO SIGNAL ROUTE (TV)

V1➡: AUDIO SIGNAL ROUTE (VCR1)

V2➡: AUDIO SIGNAL ROUTE (VCR2)

MR➡: AUDIO SIGNAL ROUTE (MR)

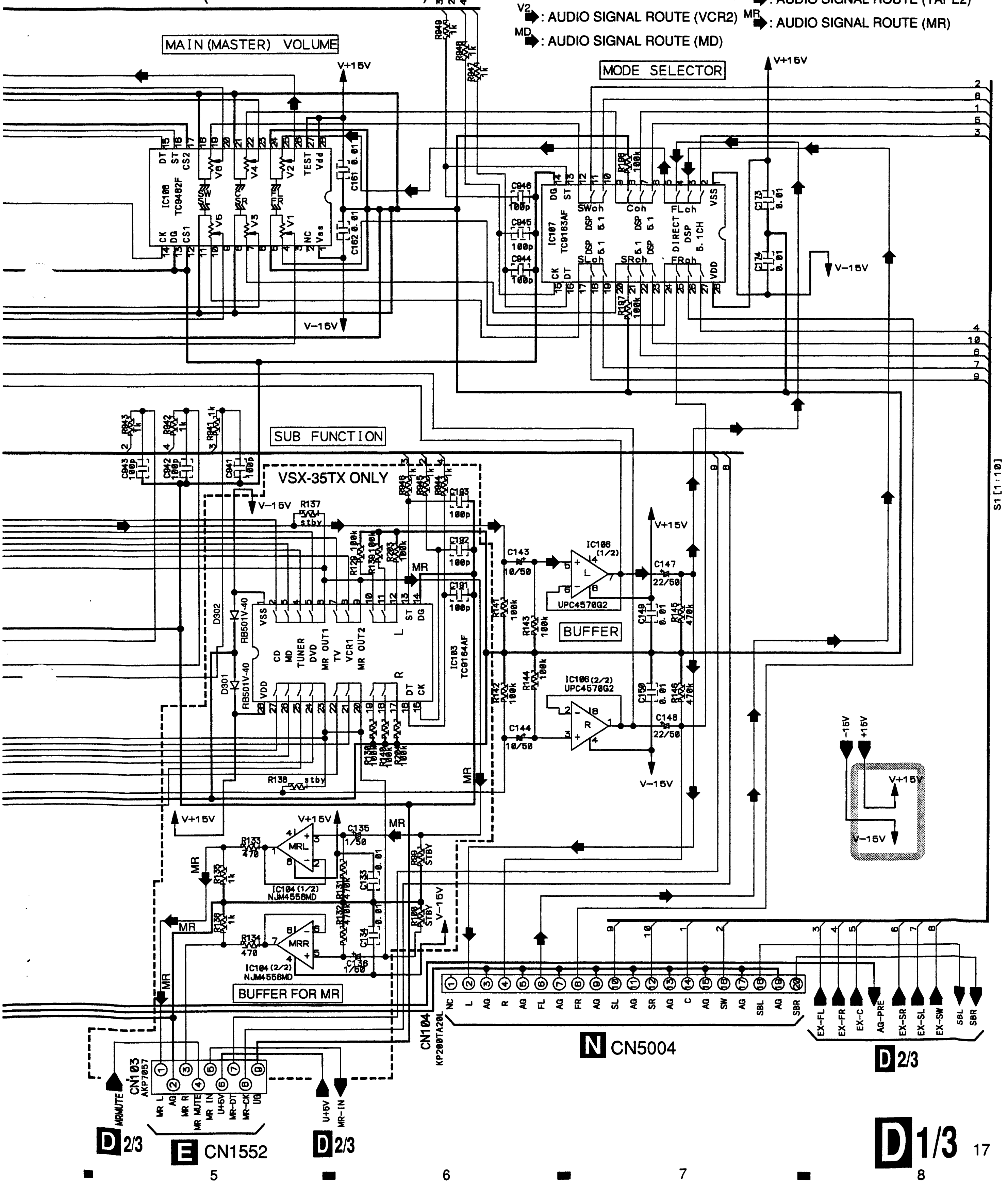
3.6 MAIN CONTROL ASSY (1/3)


S CN7005
D 2/3
D 2/3
CN102 52045-0545
A−15V
FV−R
AG
FV−L
A+15V
V+15V
V−15V
C142 0.01
C141 0.01
CK1
ST1
DT1
MRVR-CK
MR-VRDT
RMC
SR-IN
DSP-OL
SR-OUT
AG-REF
TL
TR
UG
ST2
DT2
CK2
TU
C131 10/50
C132 10/50
C1 [1:9]
ADX7347-J901
(CN900)
(CN999)
R950
R951
R952
JA991 RKN1004
SR IN
C991 220p
SR OUT
JA992 RKN1004
C992 1000p
C993 100p
CHASSIS
FLVOLOUT
AG-F
FRVOLOUT
SRVOLOUT
AG-CSW
SLVOLOUT
SWVOLOUT
AG-S
CVOLOUT
V+15V
C949 100p
C948 100p
C947 100p
R222 1M
R221 1M
OVER INPUT DETECTION
Q251 2SC2412K
Q252 2SC2412K
C259 10/50
C260 10/50
C257 0.01
C258 0.01
R261 10k
D254
D255
D256 UDZS5.1B
R262 10k
C261 10/50
R259 10k
R260 10k
R257 100k
R258 100k
MAIN FUNCTION
V−15V
CN153(2/2) AKB7015
MD PLAY
CN153(1/2) AKB7015
MD REC
152 (3/3) AKB7012
TAPE2 PLAY
152 (2/3) AKB7012
TAPE2 REC
152 (1/3) AKB7012
CD
L
R
R101 330
R102 330
R103 1k
R104 1k
R105 330
R106 330
R107 1k
R108 1k
R109 330
R110 330
MD
T2
CD
TV
V1
V2
P
TU
IC102 TC9274F-001
VSS
NC
VDD
DG
CK
DT
ST
Lch
Rch
TUNER
TP2 REC
TP2 OFF
TP2 ON
V−15V
C130 0.01
V+15V
C129 0.01
JA151 VKB1060
PHONO L
PHONO R
VSX-35TX ONLY
PHONO RIAA-EQ
IC101 (1/2) M5220FP
IC101 (2/2) M5220FP
R115 330
R116 330
C113 10/50
C114 10/50
C125 2.2/50
C126 2.2/50
R125 470
R126 470
R127 220k
R128 220k
C127 100/25
C128 100/25
C121 8200p
C122 8200p
C123 2400p
C124 2400p
R121 390k
R122 390k
R123 30k
R124 30k
R111 0
R112 0
R113 100k
R114 100k
R117 100k
R118 100k
C115 180p
C116 180p
C117 47/25
C118 47/25
R119 510
R120 510
101 VEF1040-
CN101 AKP7060
V2/OUT
V1/OUT
DVD/LD
TV/SAT
V2/IN
V1/IN
AG
L ch
R ch
E CN1551

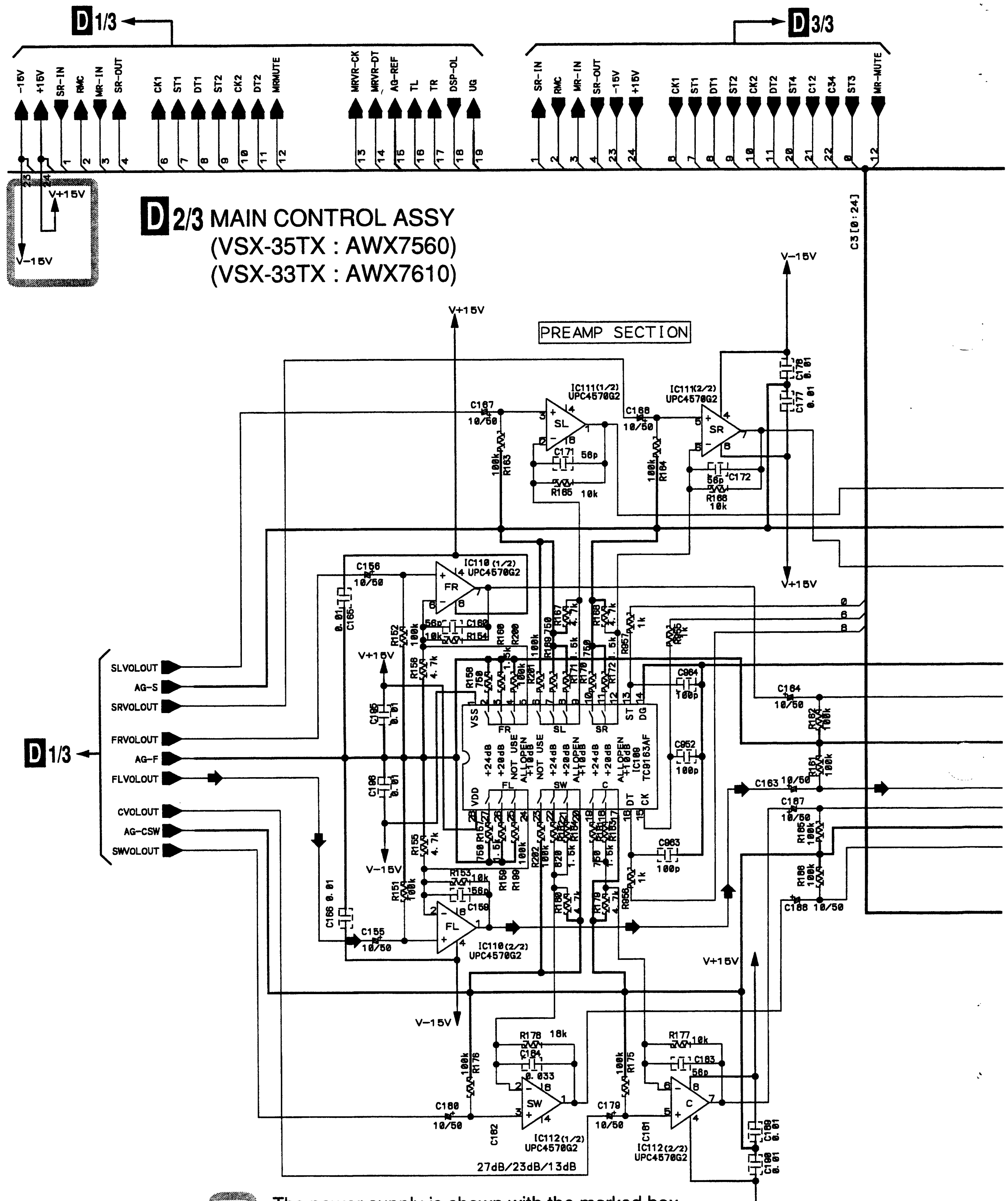
: The power supply is shown with the marked box.

D 1/3 MAIN CONTROL ASSY
(VSX-35TX : AWX7560)
(VSX-33TX : AWX7610)

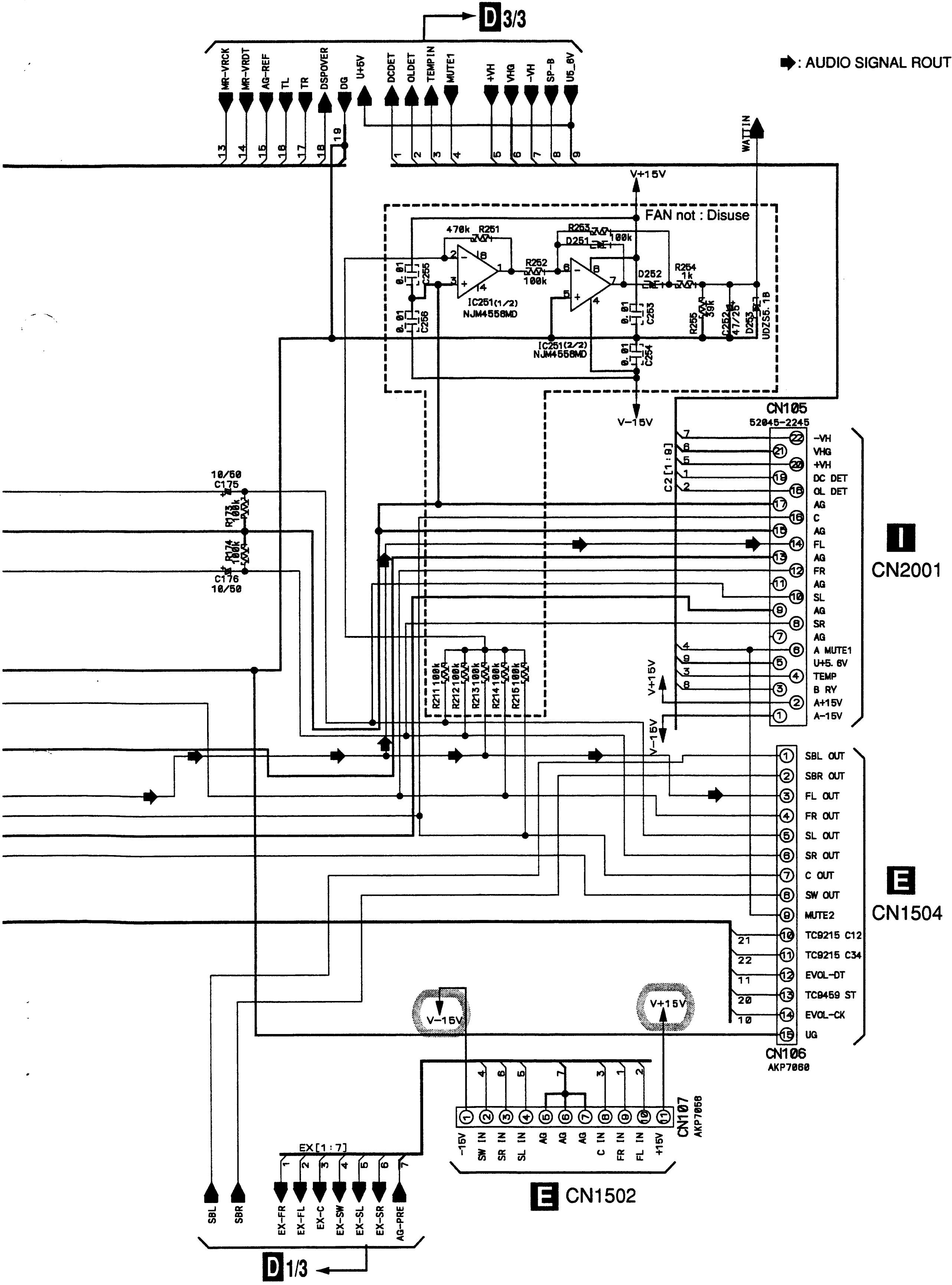
➡ : AUDIO SIGNAL ROUTE
LD ➡ : AUDIO SIGNAL ROUTE (LD)
TV ➡ : AUDIO SIGNAL ROUTE (TV)
V1 ➡ : AUDIO SIGNAL ROUTE (VCR1)
V2 ➡ : AUDIO SIGNAL ROUTE (VCR2)
MD ➡ : AUDIO SIGNAL ROUTE (MD)
P ➡ : AUDIO SIGNAL ROUTE (PHONO)
TU ➡ : AUDIO SIGNAL ROUTE (TUNER)
CD ➡ : AUDIO SIGNAL ROUTE (CD)
T2 ➡ : AUDIO SIGNAL ROUTE (TAPE2)
MR ➡ : AUDIO SIGNAL ROUTE (MR)


MAIN (MASTER) VOLUME
MODE SELECTOR
SUB FUNCTION
VSX-35TX ONLY
BUFFER
BUFFER FOR MR
IC100 TC9482F
IC107 TC9163AF
IC103 TC9164AF
IC106 (1/2) UPC4570G2
IC106 (2/2) UPC4570G2
IC104 (1/2) NJM4558MD
IC104 (2/2) NJM4558MD
MRL
MRR
V+15V
V−15V
D301 RB501V-40
D302 RB501V-40
R137 stby
R138 stby
C161 0.01
C162 0.01
C173 0.01
C174 0.01
C943 100p
C942 100p
C941 100p
C944 100p
C945 100p
C946 100p
C191 100p
C192 100p
C193 100p
C143 10/50
C144 10/50
C147 22/50
C148 22/50
C149 0.01
C150 0.01
C135 1/50
C136 1/50
C133 0.01
C134 0.01
R141 100k
R142 100k
R143 100k
R144 100k
R145 470k
R146 470k
R133 470
R134 470
R135 1k
R136 1k
R196 100k
R197 100k
R99 STBY
R100 STBY
SWch Cch FLch SLch SRch FRch
DSP 5.1 DIRECT 5.1CH
CD MD TUNER DVD MR OUT1 TV VCR1 MR OUT2
MR
S1[1:10]
CN104 KP200TA20L
NC L AG R AG FL AG FR AG SL AG SR AG C AG SW AG SBL AG SBR
N CN5004
EX-FL EX-FR EX-C AG-PRE EX-SR EX-SL EX-SW SBL SBR
D 2/3
CN103 AKP7057
MR L AG MR R MR MUTE MR IN U+5V MR-DT MR-CK UG
MRMUTE
U+5V MR-IN
E CN1552

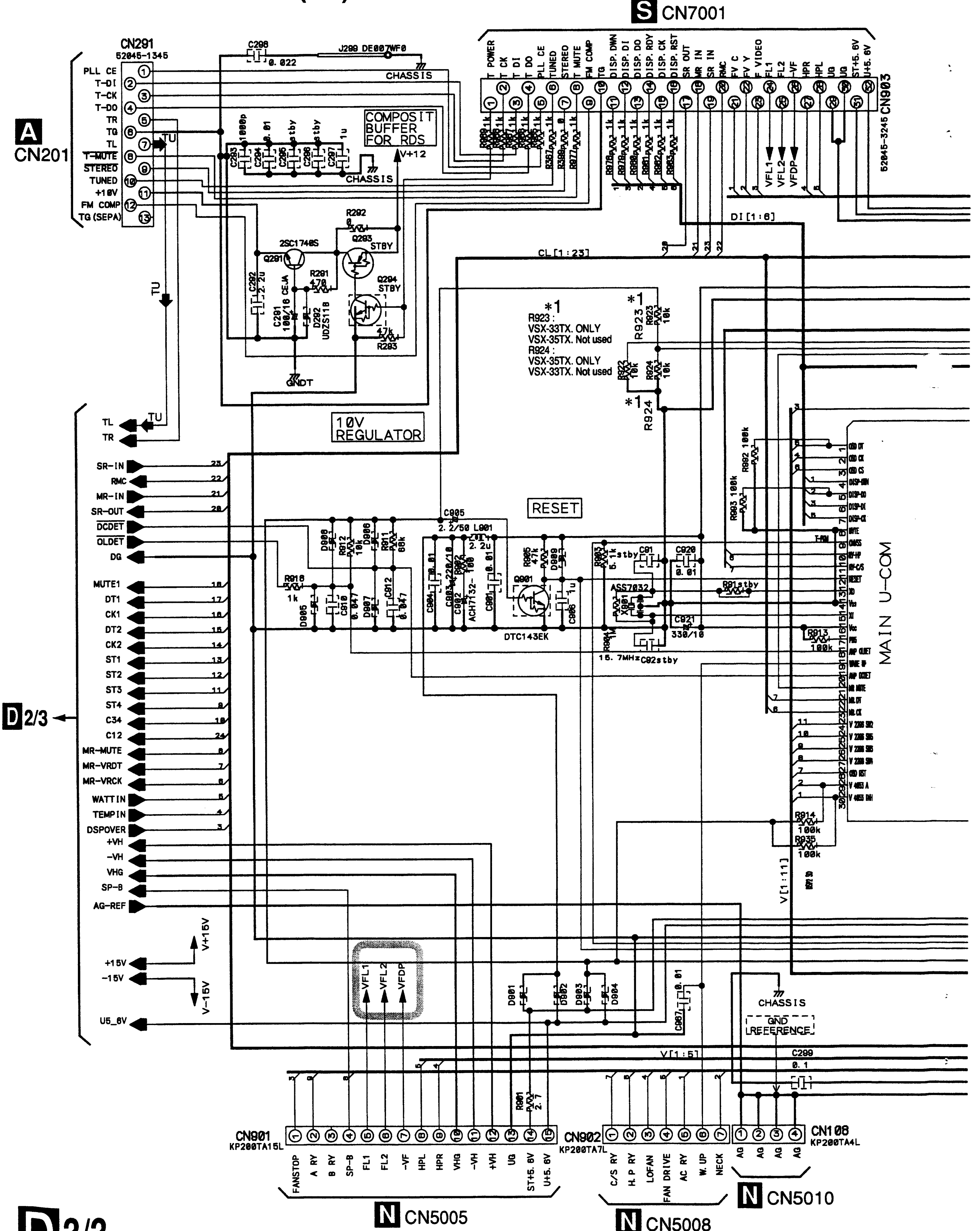
3.7 MAIN CONTROL ASSY (2/3)


D 1/3
D 3/3
-15V
+15V
SR-IN
RMC
MR-IN
SR-OUT
CK1
ST1
DT1
ST2
CK2
DT2
MRMUTE
MRVR-CK
MRVR-DT
AG-REF
TL
TR
DSP-OL
UG
SR-IN
RMC
MR-IN
SR-OUT
-15V
+15V
CK1
ST1
DT1
ST2
CK2
DT2
ST4
C12
C34
ST3
MR-MUTE
V+15V
V-15V
C3[0:24]
D 2/3 MAIN CONTROL ASSY
(VSX-35TX : AWX7560)
(VSX-33TX : AWX7610)
PREAMP SECTION
IC111(1/2) UPC4570G2
IC111(2/2) UPC4570G2
SL
SR
C167 10/50
C168 10/50
R163 100k
R164 100k
C171 56p
R165 10k
C172 56p
R166 10k
C177 0.01
C178 0.01
IC110(1/2) UPC4570G2
FR
C156 10/50
C165 0.01
R152 100k
C160 56p
R154 10k
R160 100k
R200
R167 4.7k
R168 4.7k
R957 1k
R955 1k
SLVOLOUT
AG-S
SRVOLOUT
D 1/3
FRVOLOUT
AG-F
FLVOLOUT
CVOLOUT
AG-CSW
SWVOLOUT
IC109 TC9163AF
VSS
VDD
FR
SL
SR
FL
SW
C
ST
DG
DT
CK
+24dB
+20dB
NOT USE
ALL OPEN
+10dB
C964 100p
C952 100p
C963 100p
R956 1k
C164 10/50
R162 100k
R161 100k
C163 10/50
C187 10/50
R185 100k
R186 100k
C188 10/50
C185 0.01
C186 0.01
R158 4.7k
R155 4.7k
R151 100k
R153 10k
C159 56p
R159
R199
C166 0.01
C155 10/50
FL
IC110(2/2) UPC4570G2
R180 4.7k
R179 4.7k
R178 10k
C184
0.033
R176 100k
C180 10/50
SW
C182
IC112(1/2) UPC4570G2
27dB/23dB/13dB
R177 10k
C183 56p
R175 100k
C179 10/50
C
C181
IC112(2/2) UPC4570G2
C189 0.01
C190 0.01

: The power supply is shown with the marked box.

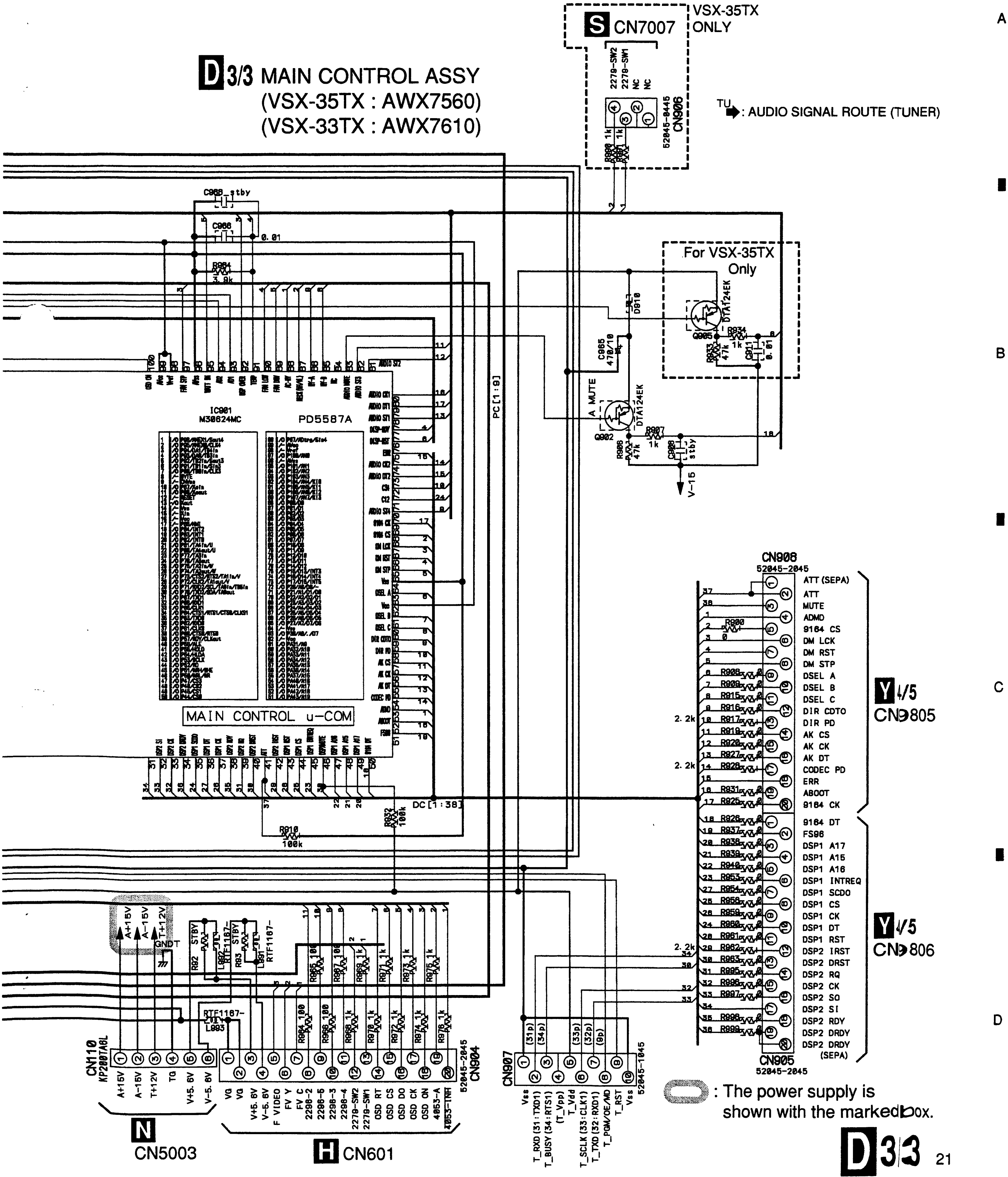

D 3/3
MR-VRCK
MR-VRDT
AG-REF
TL
TR
DSPOVER
DG
U+6V
DCDET
OLDET
TEMPIN
MUTE1
+VH
VHG
-VH
SP-B
U5_6V
➡: AUDIO SIGNAL ROUTE
WATTIN
V+15V
FAN not : Disuse
470k R251
R253
D251
100k
R252 100k
R254 1k
D252
0.01 C255
0.01 C256
IC251(1/2) NJM4558MD
IC251(2/2) NJM4558MD
0.01 C253
0.01 C254
R255 39k
C252 47/25
D253 UDZS5.1B
V-15V
CN105 52045-2245
C2[1:9]
-VH
VHG
+VH
DC DET
OL DET
AG
C
AG
FL
AG
FR
AG
SL
AG
SR
AG
A MUTE1
U+5.6V
TEMP
B RY
A+15V
A-15V
I
CN2001
10/50 C175
R173 100k
R174 100k
C176 10/50
R211 100k
R212 100k
R213 100k
R214 100k
R215 100k
SBL OUT
SBR OUT
FL OUT
FR OUT
SL OUT
SR OUT
C OUT
SW OUT
MUTE2
TC9215 C12
TC9215 C34
EVOL-DT
TC9459 ST
EVOL-CK
UG
E
CN1504
CN106 AKP7060
V-15V
V+15V
CN107 AKP7058
-15V
SW IN
SR IN
SL IN
AG
AG
AG
C IN
FR IN
FL IN
+15V
E CN1502
EX[1:7]
SBL
SBR
EX-FR
EX-FL
EX-C
EX-SW
EX-SL
EX-SR
AG-PRE
D 1/3

3.8 MAIN CONTROL ASSY (3/3)


S CN7001
CN291
52045-1345
PLL CE
T-DI
T-CK
T-DO
TR
TG
TL
T-MUTE
STEREO
TUNED
+10V
FM COMP
TG (SEPA)
A CN201
C298
0.022
J299 DE007WF0
CHASSIS
COMPOSIT BUFFER FOR RDS
V+12
T POWER
T CK
T DI
T DO
PLL CE
TUNED
STEREO
T MUTE
FM COMP
TG
DISP. DWN
DISP. DI
DISP. DO
DISP. RDY
DISP. CK
DISP. RST
SR OUT
MR IN
SR IN
RMC
FV C
FV Y
F VIDEO
FL1
FL2
-VF
HPR
HPL
UG
UG
ST+5.6V
U+5.6V
CN903
52045-3245
VFL1
VFL2
VFDP
DI[1:6]
CL[1:23]
2SC1740S
Q291
Q293
STBY
Q294
STBY
R292
R291
470
R293
47k
C292
2.2U
C291
100/16 CEJA
D292
UDZS11B
GNDT
TU
10V REGULATOR
*1
R923 :
VSX-33TX. ONLY
VSX-35TX. Not used
R924 :
VSX-35TX. ONLY
VSX-33TX. Not used
R923
R924
10k
R922 10k
TL
TR
SR-IN
RMC
MR-IN
SR-OUT
DCDET
OLDET
DG
MUTE1
DT1
CK1
DT2
CK2
ST1
ST2
ST3
ST4
C34
C12
MR-MUTE
MR-VRDT
MR-VRCK
WATTIN
TEMPIN
DSPOVER
+VH
-VH
VHG
SP-B
AG-REF
D 2/3
+15V
-15V
V+15V
V-15V
U5_6V
RESET
C905
2.2/50
L901
2.2U
R910
1k
R912 10k
R911 68k
C910
0.047
C912
0.047
C903
220/10
R902 100
ACH7132-
C901 0.01
Q901
DTC143EK
R905 47k
C906 1u
C91 stby
C920 0.01
ASS7032
X901
C921
330/10
R904 1M
16.7MHz
C92stby
R901 stby
R992 100k
R993 100k
R913 100k
R914 100k
R935 100k
MAIN U-COM
V[1:11]
V[1:5]
D901
D902
D903
D904
C907 0.01
CHASSIS
GND REFERENCE
C299
0.1
R991
2.7
CN901
KP200TA15L
FANSTOP
A RY
B RY
SP-B
FL1
FL2
-VF
HPL
HPR
VHG
-VH
+VH
UG
ST+5.6V
U+5.6V
CN902
KP200TA7L
C/S RY
H.P RY
LOFAN
FAN DRIVE
AC RY
W.UP
NECK
CN108
KP200TA4L
AG
AG
AG
AG
N CN5005
N CN5008
N CN5010

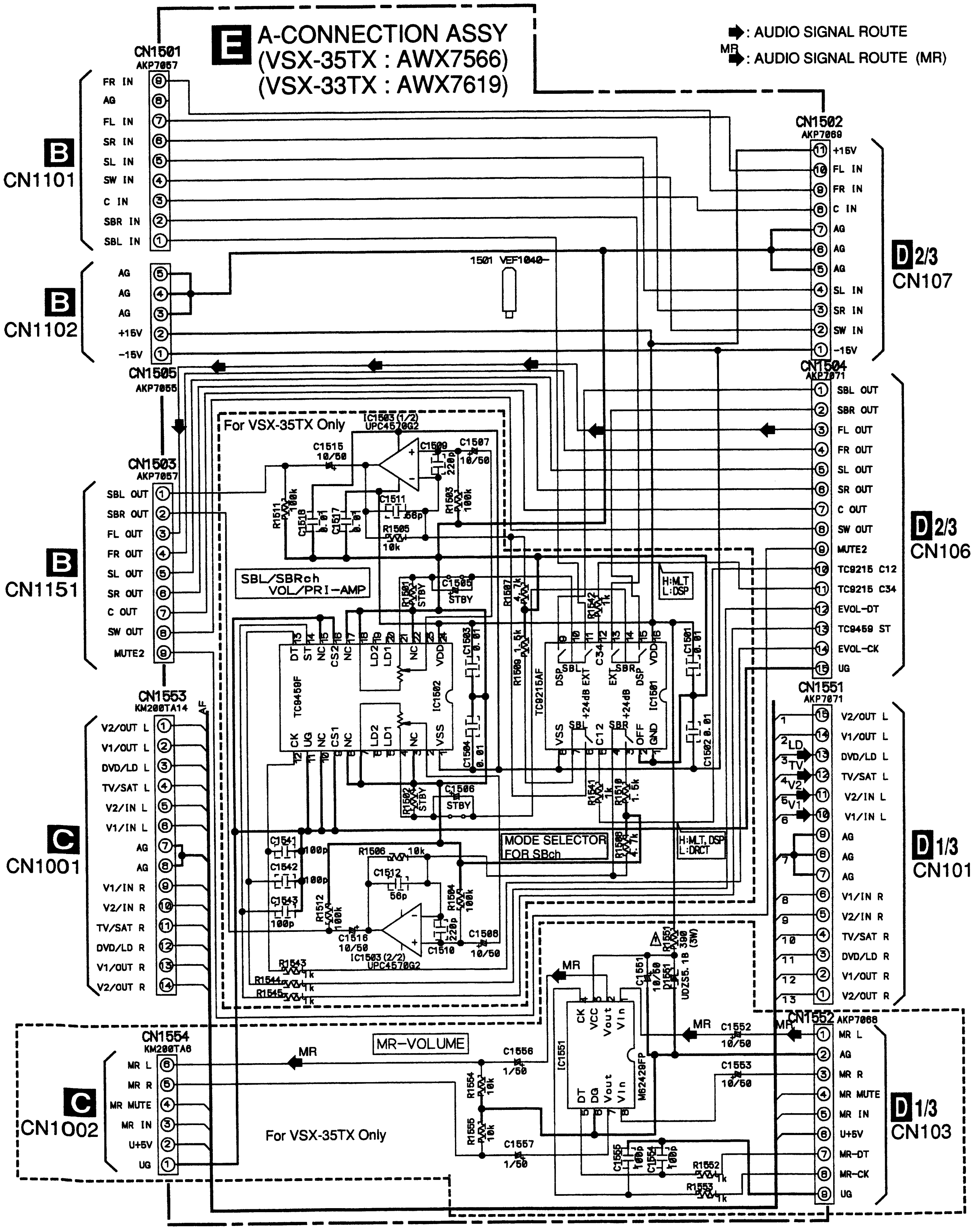
D 3/3 MAIN CONTROL ASSY
(VSX-35TX : AWX7560)
(VSX-33TX : AWX7610)

TU ➡: AUDIO SIGNAL ROUTE (TUNER)

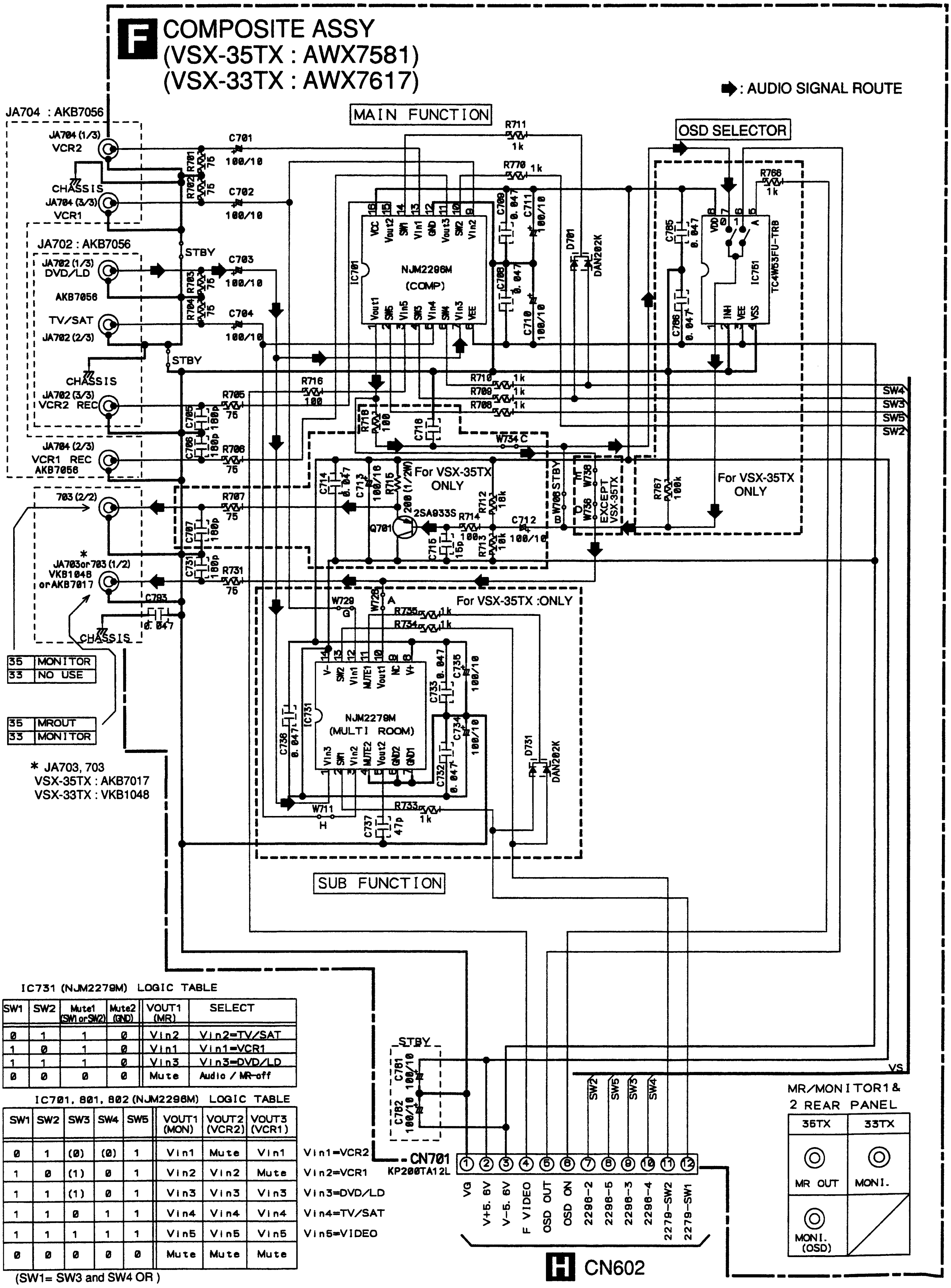

S CN7007
VSX-35TX ONLY
2270-SW2
2270-SW1
NC
NC
52045-0445
CN906
R990 1k
R991 1k
C968 stby
C966
0.01
R964
3.9k
For VSX-35TX Only
DTA124EK
Q905
D910
R934 1k
R933 47k
C911 0.01
C965 470/10
MUTE
Q902
DTA124EK
R906 47k
R907 1k
C908 stby
V-15
IC901
M30624MC
PD5587A
MAIN CONTROL u-COM
PC[1:9]
DC[1:38]
R910 100k
R932 100k
CN908
52045-2045
ATT (SEPA)
ATT
MUTE
ADMD
9164 CS
DM LCK
DM RST
DM STP
DSEL A
DSEL B
DSEL C
DIR CDTO
DIR PD
AK CS
AK CK
AK DT
CODEC PD
ERR
ABOOT
9164 CK
9164 DT
FS96
DSP1 A17
DSP1 A16
DSP1 A16
DSP1 INTREQ
DSP1 SCDO
DSP1 CS
DSP1 CK
DSP1 DT
DSP1 RST
DSP2 IRST
DSP2 DRST
DSP2 RQ
DSP2 CK
DSP2 SO
DSP2 SI
DSP2 RDY
DSP2 DRDY
DSP2 DRDY (SEPA)
CN905
52045-2045
Y 4/5 CN805
Y 4/5 CN806
R900 0
2.2k
A+15V
A-15V
T+12V
GNDT
STBY
R92
R93
L882
RTF1167-
L883
CN110
KP200TA6L
A+15V
A-15V
T+12V
TG
V+5.6V
V-5.6V
N CN5003
VG
VG
V+5.6V
F VIDEO
FV Y
FV C
2290-2
2290-3
2290-4
2270-SW2
2270-SW1
OSD RT
OSD CS
OSD DO
OSD CK
OSD ON
4053-A
4053-INH
52045-2045
CN904
H CN601
CN907
52045-1045
Vss
T_RXD (31:TXD1)
T_BUSY (34:RTS1)
(T_Vpp)
T_Vdd
T_SCLK (33:CLK1)
T_TXD (32:RXD1)
T_PGM/OE/MD
T_RST
Vss

: The power supply is shown with the marked box.

3.9 A-CONNECTION ASSY


E A-CONNECTION ASSY
(VSX-35TX : AWX7566)
(VSX-33TX : AWX7619)
: AUDIO SIGNAL ROUTE
MR : AUDIO SIGNAL ROUTE (MR)
CN1501 AKP7057
FR IN
AG
FL IN
SR IN
SL IN
SW IN
C IN
SBR IN
SBL IN
B CN1101
B CN1102
AG
+15V
-15V
CN1502 AKP7069
+15V
FL IN
FR IN
C IN
AG
SL IN
SR IN
SW IN
-15V
D 2/3 CN107
1501 VEF1040
CN1505 AKP7055
CN1503 AKP7057
SBL OUT
SBR OUT
FL OUT
FR OUT
SL OUT
SR OUT
C OUT
SW OUT
MUTE2
B CN1151
CN1504 AKP7071
TC9215 C12
TC9215 C34
EVOL-DT
TC9459 ST
EVOL-CK
UG
D 2/3 CN106
For VSX-35TX Only
IC1503 (1/2) UPC4570G2
IC1503 (2/2) UPC4570G2
SBL/SBRch VOL/PRI-AMP
TC9459F
IC1502
TC9215AF
IC1501
H:MLT L:DSP
H:MLT, DSP L:DRCT
MODE SELECTOR FOR SBch
STBY
CN1553 KM200TA14
V2/OUT L
V1/OUT L
DVD/LD L
TV/SAT L
V2/IN L
V1/IN L
V1/IN R
V2/IN R
TV/SAT R
DVD/LD R
V1/OUT R
V2/OUT R
C CN1001
CN1551 AKP7071
D 1/3 CN101
CN1554 KM200TA6
MR L
MR R
MR MUTE
MR IN
U+5V
UG
C CN1002
MR-VOLUME
For VSX-35TX Only
IC1551 M62420FP
CN1552 AKP7068
MR-DT
MR-CK
D 1/3 CN103
D1551 UDZS5.1B
R1551 390 (3W)

3.10 COMPOSITE ASSY



F COMPOSITE ASSY
(VSX-35TX : AWX7581)
(VSX-33TX : AWX7617)

➡: AUDIO SIGNAL ROUTE
MAIN FUNCTION
OSD SELECTOR
SUB FUNCTION
JA704 : AKB7056
JA704 (1/3) VCR2
CHASSIS
JA704 (3/3) VCR1
JA702 : AKB7056
JA702 (1/3) DVD/LD
AKB7056
TV/SAT
JA702 (2/3)
CHASSIS
JA702 (3/3) VCR2 REC
JA704 (2/3) VCR1 REC AKB7056
703 (2/2)
*
JA703or703 (1/2) VKB1046 orAKB7017
CHASSIS
C701 100/10
C702 100/10
C703 100/10
C704 100/10
C793 0.047
R701 75
R702 75
R703 75
R704 75
R705 75
R706 75
R707 75
R731 75
C705 100p
C706 100p
C707 100p
C731 100p
STBY
R711 1k
R770 1k
R716 100
R710 1k
R709 1k
R708 1k
IC701
NJM2296M (COMP)
VCC Vout2 SW1 Vin1 GND Vout3 SW2 Vin2
Vout1 SW5 Vin5 SW3 Vin4 SW4 Vin3 VEE
C709 0.047
C711 100/10
C708 0.047
C710 100/10
D701 DAN202K
R766 1k
C765 0.047
C766 0.047
VDD A INH VEE VSS
IC761 TC4W53FU-TR8
SW4
SW3
SW5
SW2
R716 100
C716
W734 C
For VSX-35TX ONLY
C714 0.047
C713 100/10
R715 200 (1/2W)
Q701 2SA933S
R714 100
C715 15p
R712 10k
R713 10k
C712 100/10
W706 STBY
W738 EXCEPT VSX-35TX
W736
R767 100k
For VSX-35TX ONLY
For VSX-35TX :ONLY
W729 G
W728 A
R735 1k
R734 1k
IC731
NJM2279M (MULTI ROOM)
V- SW2 Vin1 MUTE1 Vout1 NC V+
Vin3 SW1 Vin2 MUTE2 Vout2 GND2 GND1
C736 0.047
C733 0.047
C735 100/10
C734 100/10
C732 0.047
D731 DAN202K
W711 H
R733 1k
C737 47p
35 MONITOR
33 NO USE
35 MROUT
33 MONITOR
STBY
C781 100/10
C782 100/10
CN701 KP200TA12L
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫
VG
V+5.6V
V-5.6V
F VIDEO
OSD OUT
OSD ON
2296-2
2296-5
2296-3
2296-4
2279-SW2
2279-SW1
VS
H CN602
MR/MONITOR1 & 2 REAR PANEL
35TX
33TX
MR OUT
MONI.
MONI. (OSD)

* JA703, 703
VSX-35TX : AKB7017
VSX-33TX : VKB1048

IC731 (NJM2279M) LOGIC TABLE

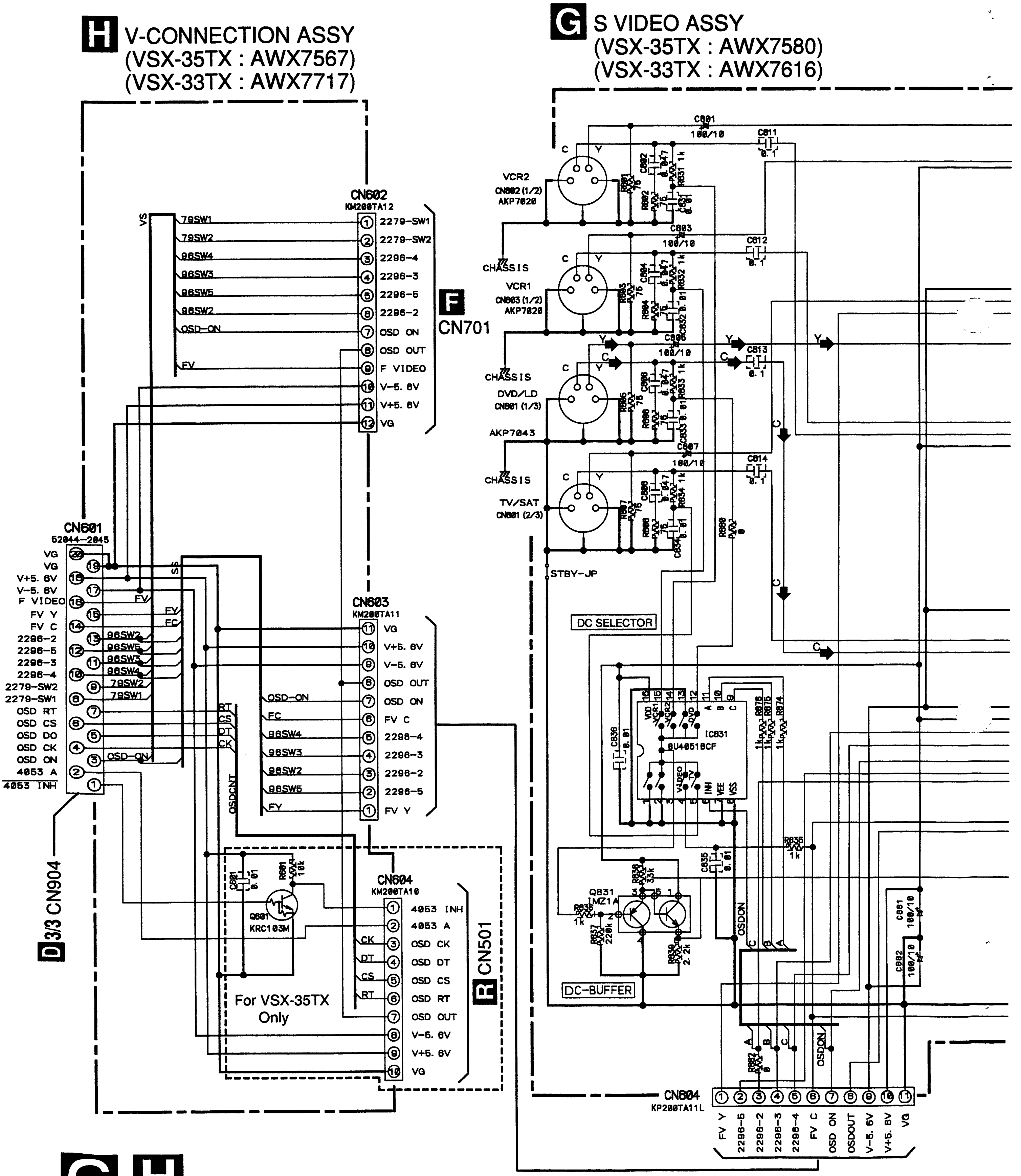
SW1	SW2	Mute1 (SW1 or SW2)	Mute2 (GND)	VOUT1 (MR)	SELECT
0	1	1	0	Vin2	Vin2=TV/SAT
1	0	1	0	Vin1	Vin1=VCR1
1	1	1	0	Vin3	Vin3=DVD/LD
0	0	0	0	Mute	Audio / MR-off

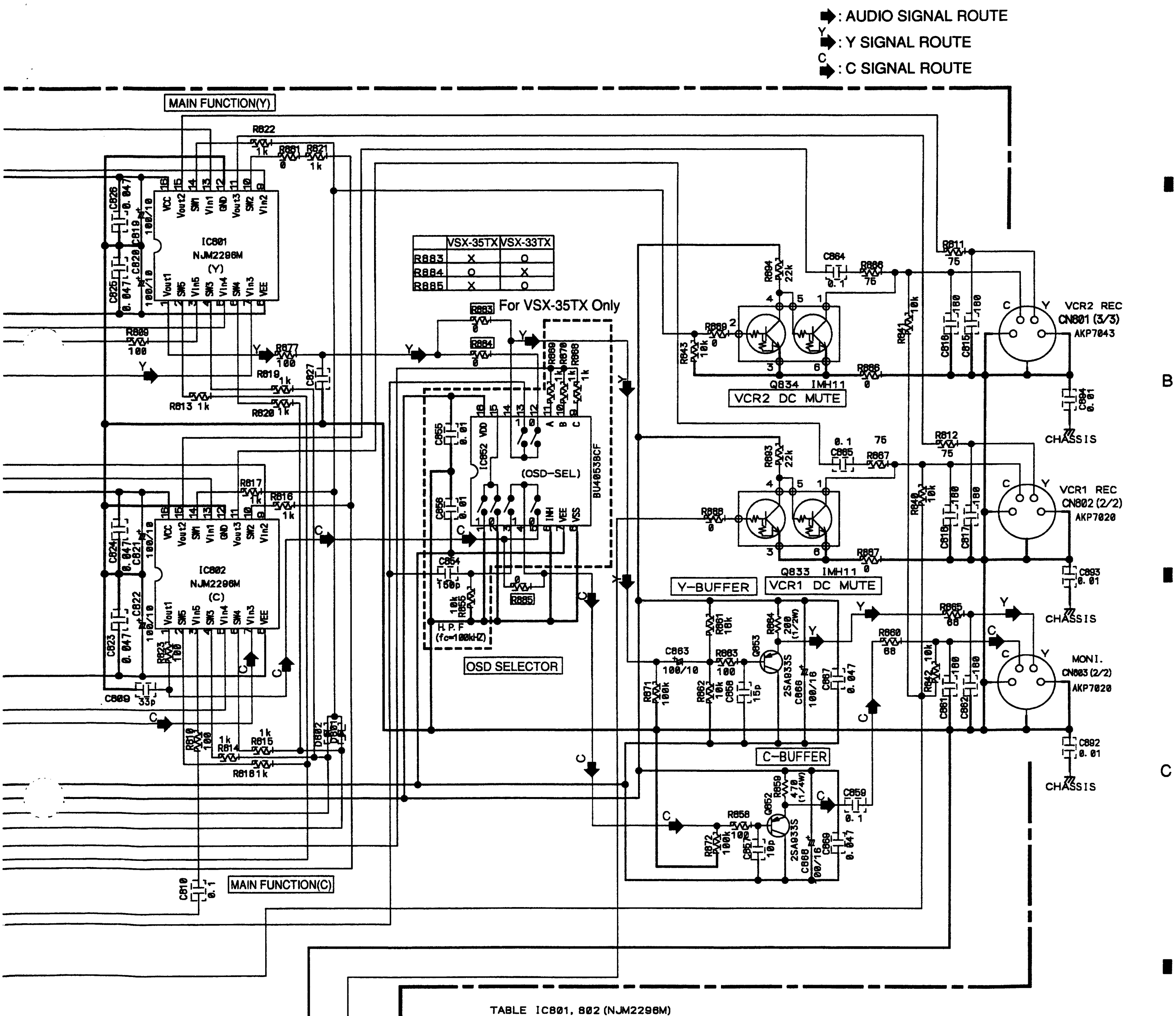
IC701, 801, 802 (NJM2296M) LOGIC TABLE

SW1	SW2	SW3	SW4	SW5	VOUT1 (MON)	VOUT2 (VCR2)	VOUT3 (VCR1)	
0	1	(0)	(0)	1	Vin1	Mute	Vin1	Vin1=VCR2
1	0	(1)	0	1	Vin2	Vin2	Mute	Vin2=VCR1
1	1	(1)	0	1	Vin3	Vin3	Vin3	Vin3=DVD/LD
1	1	0	1	1	Vin4	Vin4	Vin4	Vin4=TV/SAT
1	1	1	1	1	Vin5	Vin5	Vin5	Vin5=VIDEO
0	0	0	0	0	Mute	Mute	Mute	

(SW1= SW3 and SW4 OR)

3.11 S VIDEO and V-CONNECTION ASSYS


H V-CONNECTION ASSY
(VSX-35TX : AWX7567)
(VSX-33TX : AWX7717)
G S VIDEO ASSY
(VSX-35TX : AWX7580)
(VSX-33TX : AWX7616)
CN602
KM200TA12
2279-SW1
2279-SW2
2296-4
2296-3
2296-5
2296-2
OSD ON
OSD OUT
F VIDEO
V-5. 6V
V+5. 6V
VG
F
CN701
CN601
52044-2045
VG
VG
V+5. 6V
V-5. 6V
F VIDEO
FV Y
FV C
2296-2
2296-5
2296-3
2296-4
2279-SW2
2279-SW1
OSD RT
OSD CS
OSD DO
OSD CK
OSD ON
4053 A
4053 INH
D 3/3 CN904
CN603
KM200TA11
VG
V+5. 6V
V-5. 6V
OSD OUT
OSD ON
FV C
2296-4
2296-3
2296-2
2296-5
FV Y
CN604
KM200TA10
4053 INH
4053 A
OSD CK
OSD DT
OSD CS
OSD RT
OSD OUT
V-5. 6V
V+5. 6V
VG
R CN501
For VSX-35TX Only
Q601
KRC103M
C601 0.01
R601 10k
VCR2
CN802 (1/2)
AKP7020
VCR1
CN803 (1/2)
AKP7020
DVD/LD
CN801 (1/3)
AKP7043
TV/SAT
CN801 (2/3)
CHASSIS
STBY-JP
C801 100/10
C803 100/10
C805 100/10
C807 100/10
C811 0.1
C812 0.1
C813 0.1
C814 0.1
DC SELECTOR
IC831
BU4051BCF
C836 0.01
C835 0.01
R835 1k
Q831
IMZ1A
R836 1k
R837 220k
R838 3.3k
R839 2.2k
DC-BUFFER
C881 100/10
C882 100/10
R862 0
OSDON
CN804
KP200TA11L
FV Y
2296-5
2296-2
2296-3
2296-4
FV C
OSD ON
OSDOUT
V-5. 6V
V+5. 6V
VG


MAIN FUNCTION(Y)
IC801 NJM2296M (Y)
IC802 NJM2296M (C)
IC852 BU4053BCF (OSD-SEL)
OSD SELECTOR
H.P.F (fc=100kHZ)
For VSX-35TX Only
Q834 IMH11
VCR2 DC MUTE
Q833 IMH11
VCR1 DC MUTE
Y-BUFFER
C-BUFFER
Q853 2SA933S
Q852 2SA933S
VCR2 REC CN801 (3/3) AKP7043
VCR1 REC CN802 (2/2) AKP7020
MONI. CN803 (2/2) AKP7020
CHASSIS
MAIN FUNCTION(C)

➧: AUDIO SIGNAL ROUTE
Y ➧: Y SIGNAL ROUTE
C ➧: C SIGNAL ROUTE

	VSX-35TX	VSX-33TX
R883	X	O
R884	O	X
R885	X	O

TABLE IC801, 802 (NJM2296M)

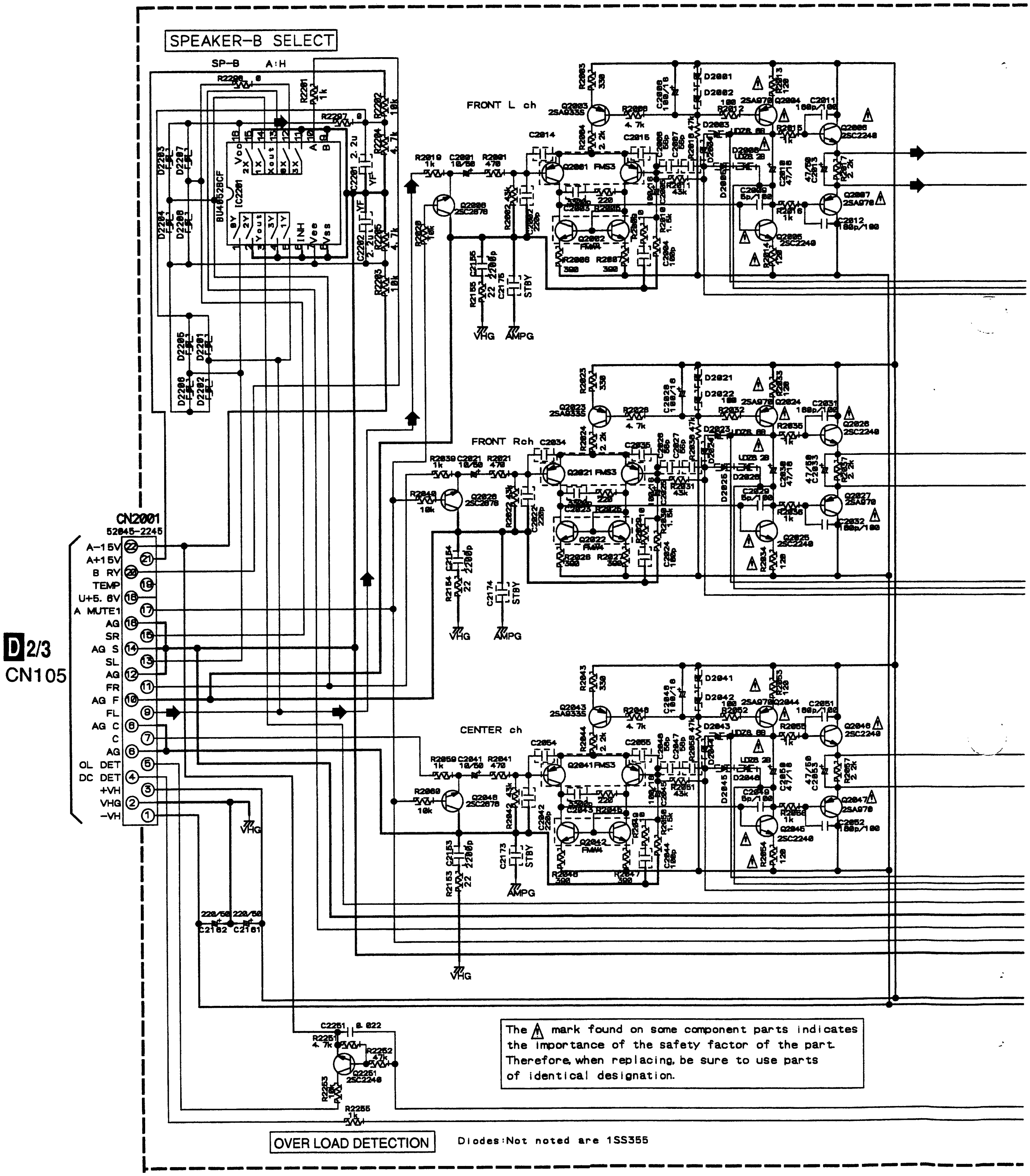
SW1	SW2	SW3	SW4	SW5	VOUT1 (MON)	VOUT2 (VCR2)	VOUT3 (VCR1)	
0	1	(0)	(0)	1	Vin1	Mute	Vin1	Vin1=VCR2
1	0	(1)	0	1	Vin2	Vin2	Mute	Vin2=VCR1
1	1	(1)	0	1	Vin3	Vin3	Vin3	Vin3=DVD/LD
1	1	0	1	1	Vin4	Vin4	Vin4	Vin4=TV/SAT
1	1	1	1	1	Vin5	Vin5	Vin5	Vin5=VIDEO
0	0	0	0	0	Mute	Mute	Mute	AUDIO FUNC.

(SW1=SW3*SW4)

TABLE IC831 (BU4051BCF)

A (SW2)	B (SW3)	C (SW4)	INH	OUT	
0	0	0	0	AUDIO	13p
1	0	0	0	VCR2	14p
0	1	0	0	VCR1	15p
1	1	0	0	DVD/LD	12p
0	0	1	0		1p
1	0	1	0	TV/SAT	5p
0	1	1	0		2p
1	1	1	0	FV	4p
*	*	*	1		

3.12 V-AMP ASSY


A
B
C
D
SPEAKER-B SELECT
SP-B A:H
BU4052BCF
IC2201
FRONT L ch
FRONT Rch
CENTER ch
Q2001 FMS3
Q2002 FMW4
Q2021 FMS3
Q2022 FMW4
Q2041 FMS3
Q2042 FMW4
2SA933S
2SA970
2SC2240
2SC2878
CN2001
52045-2245
A-15V 22
A+15V 21
B RY 20
TEMP 19
U+5.6V 18
A MUTE1 17
AG 16
SR 15
AG S 14
SL 13
AG 12
FR 11
AG F 10
FL 9
AG C 8
C 7
AG 6
OL DET 5
DC DET 4
+VH 3
VHG 2
-VH 1
D 2/3
CN105
VHG
AMPG
STBY
C2162 C2161
220/50 220/50
Q2251 2SC2240
OVER LOAD DETECTION

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

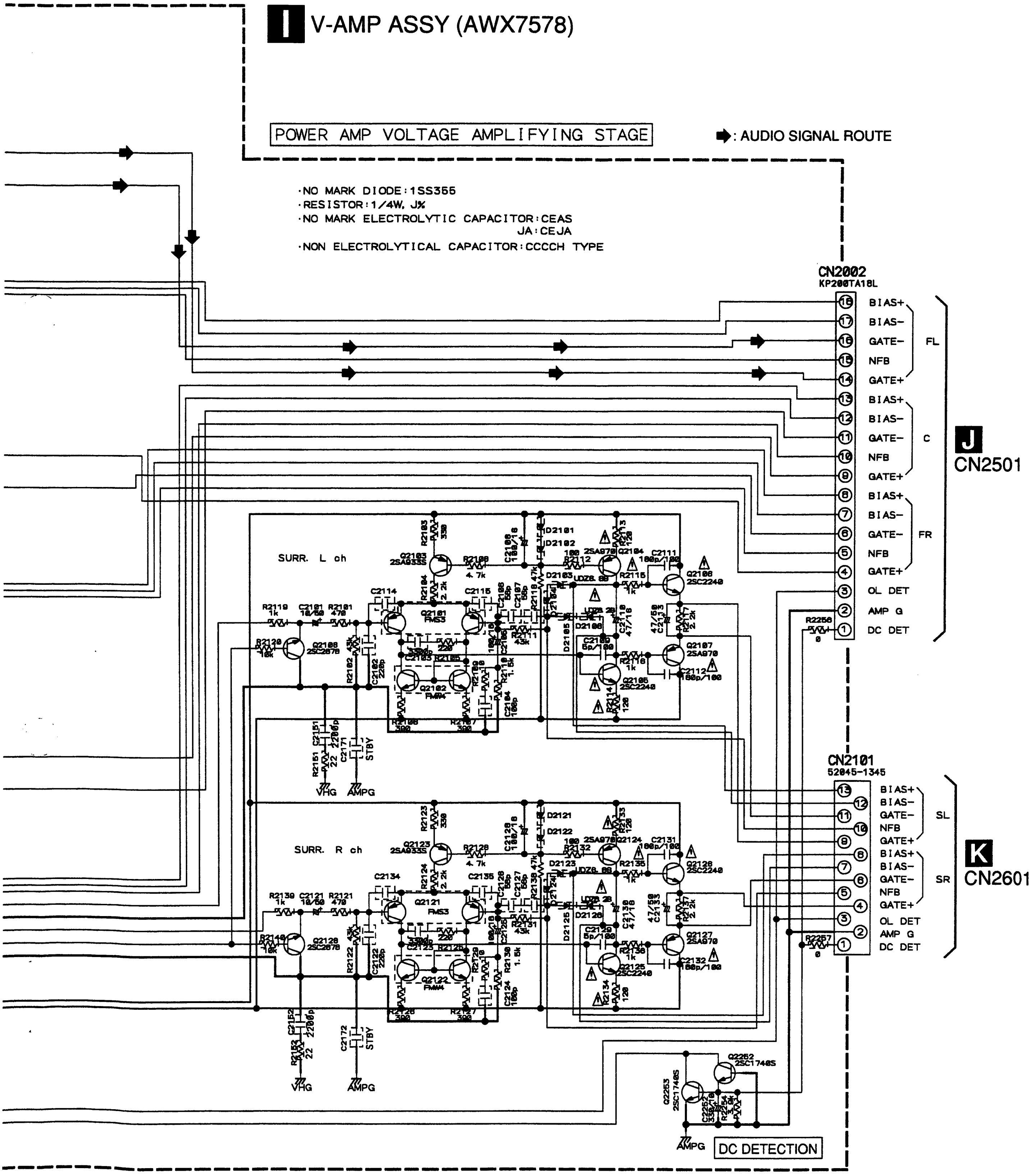
Diodes:Not noted are 1SS355

I V-AMP ASSY (AWX7578)

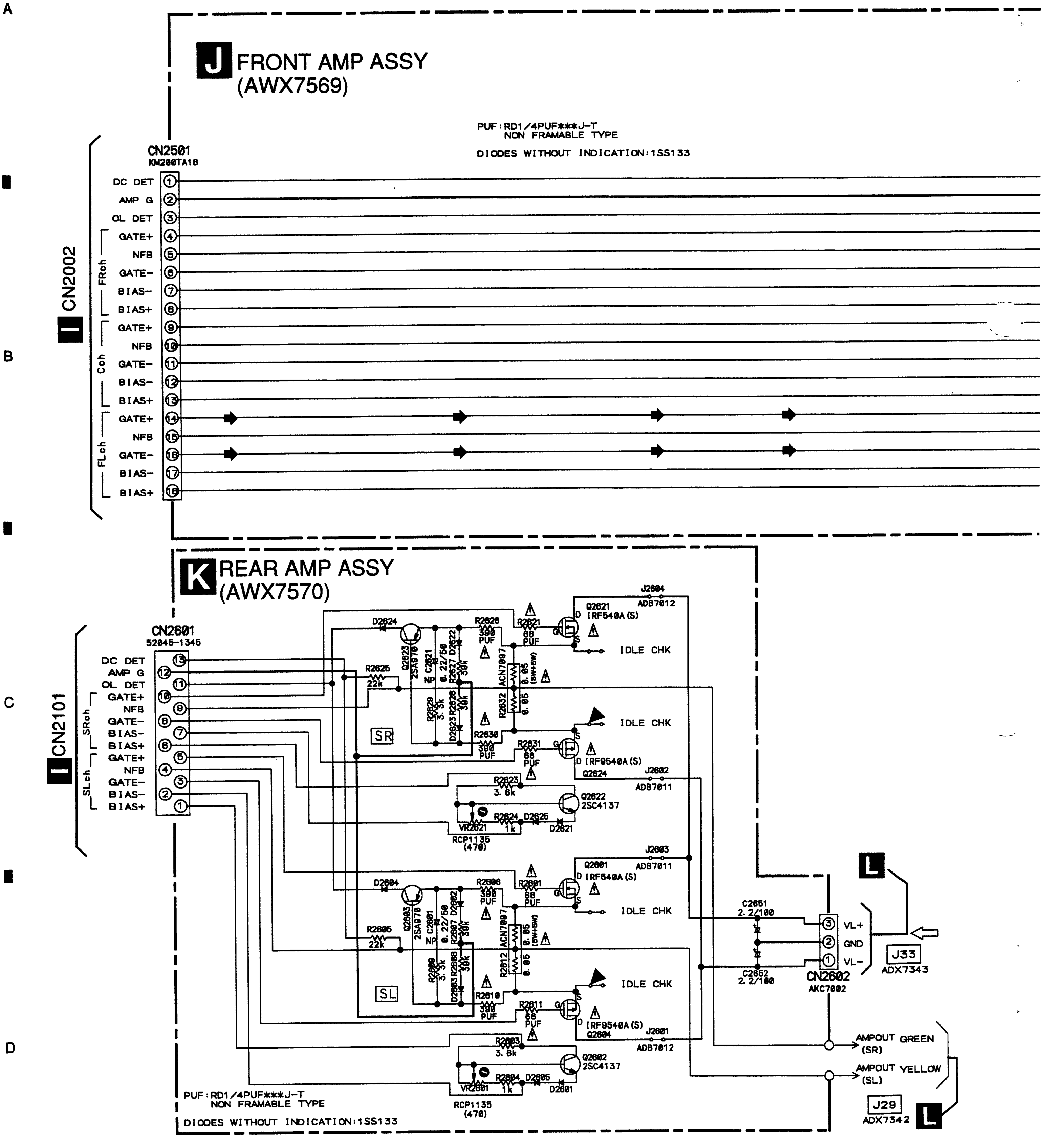
POWER AMP VOLTAGE AMPLIFYING STAGE

➡: AUDIO SIGNAL ROUTE

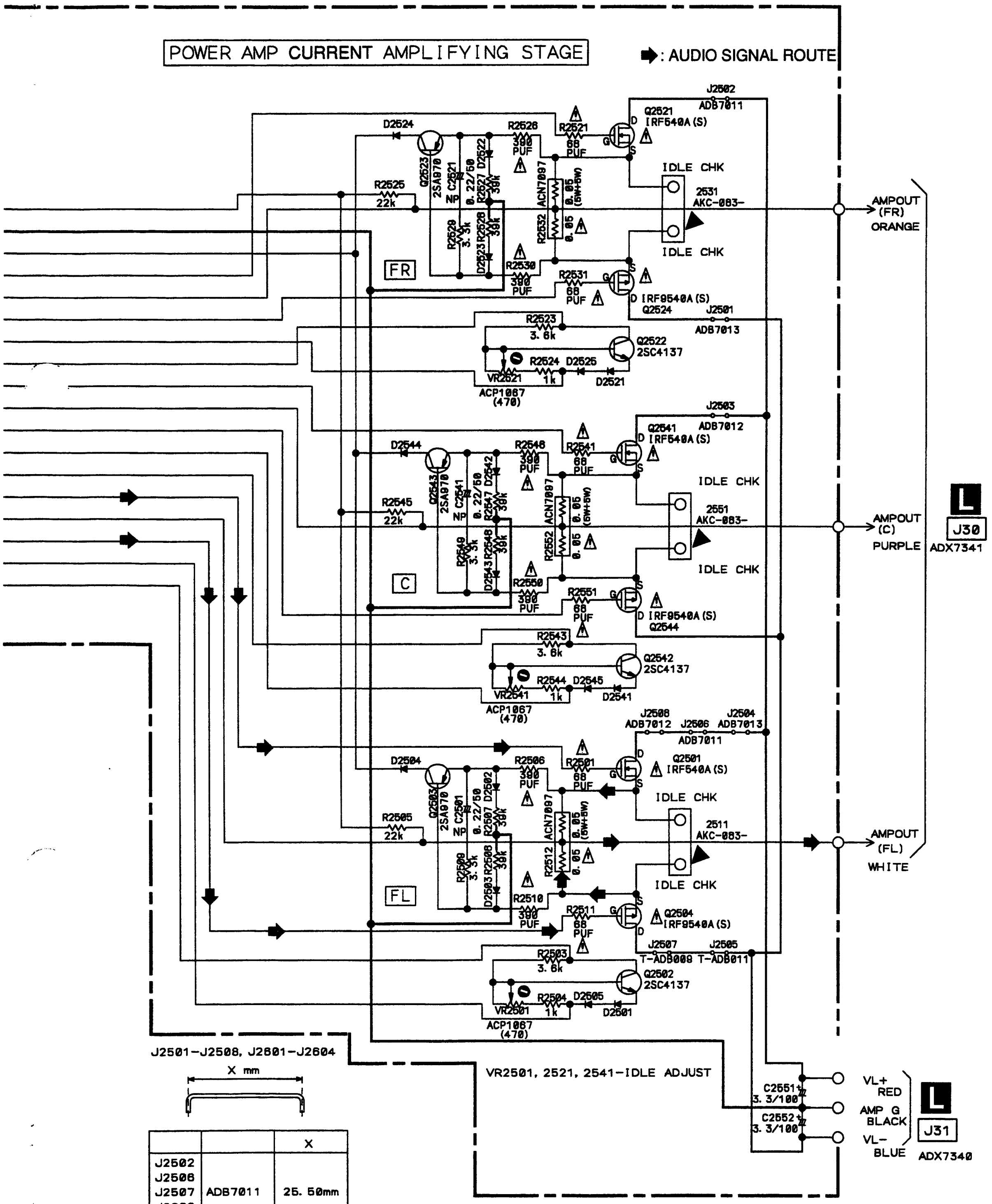
- ·NO MARK DIODE: 1SS355
- ·RESISTOR: 1/4W, J%
- ·NO MARK ELECTROLYTIC CAPACITOR: CEAS
  JA: CEJA
- ·NON ELECTROLYTICAL CAPACITOR: CCCCH TYPE


CN2002
KP200TA18L
18 BIAS+
17 BIAS−
16 GATE−
15 NFB
14 GATE+
FL
13 BIAS+
12 BIAS−
11 GATE−
10 NFB
9 GATE+
C
8 BIAS+
7 BIAS−
6 GATE−
5 NFB
4 GATE+
FR
3 OL DET
2 AMP G
1 DC DET
J
CN2501
R2256
0
SURR. L ch
R2103 330
Q2103 2SA933S
R2100 4.7k
C2100 100/16
D2101
D2102
R2112 100
2SA970 Q2104
R2113 120
C2111 100p/100
R2115 1k
Q2106 2SC2240
D2103 UDZ6.8B
R2104 2.2k
C2114
C2115
C2106 56p
C2107 56p
R2118 47k
D2104
UDZ8.2B
D2106
D2105
C2110 47/16
C2113 47/50
R2117 2.2k
R2119 1k
C2101 10/50
R2101 470
Q2101 FMS3
R2111 43k
100/16
C2105
C2109 5p/100
R2116 1k
Q2107 2SA970
R2120 10k
Q2108 2SC2878
R2102 43k
C2102 220p
3300p C2103
R2105 220
R2109 10
R2110 1.5k
Q2102 FMW4
Q2105 2SC2240
C2112 100p/100
R2114 120
C2104 100p
R2106 390
R2107 390
R2151 22
C2151 2200p
C2171 STBY
VHG
AMPG
SURR. R ch
R2123 330
Q2123 2SA933S
R2128 4.7k
C2120 100/16
D2121
D2122
R2132 100
2SA970 Q2124
R2133 120
C2131 100p/100
R2135 1k
Q2126 2SC2240
D2123 UDZ6.8B
R2124 2.2k
C2134
C2135
C2126 56p
C2127 56p
R2138 47k
D2124
UDZ8.2B
D2126
D2125
C2130 47/16
C2133 47/50
R2137 2.2k
R2139 1k
C2121 10/50
R2121 470
Q2121 FMS3
R2131 43k
100/16
C2125
C2129 5p/100
R2136 1k
Q2127 2SA970
R2140 10k
Q2128 2SC2878
R2122 43k
C2122 220p
3300p C2123
R2125 220
R2129 10
R2130 1.5k
Q2122 FMW4
Q2125 2SC2240
C2132 100p/100
R2134 120
C2124 100p
R2126 390
R2127 390
R2152 22
C2152 2200p
C2172 STBY
VHG
AMPG
CN2101
52045-1345
13 BIAS+
12 BIAS−
11 GATE−
10 NFB
9 GATE+
SL
8 BIAS+
7 BIAS−
6 GATE−
5 NFB
4 GATE+
SR
3 OL DET
2 AMP G
1 DC DET
K
CN2601
R2257
0
Q2252 2SC1740S
Q2253 2SC1740S
C2252 330/10
R2254 3.9k
AMPG
DC DETECTION
B
C
D

3.13 FRONT AMP and REAR AMP ASSYS


A
B
C
D
J FRONT AMP ASSY
(AWX7569)
PUF: RD1/4PUF***J-T
NON FRAMABLE TYPE
DIODES WITHOUT INDICATION: 1SS133
CN2501
KM200TA18
DC DET ①
AMP G ②
OL DET ③
GATE+ ④
NFB ⑤
GATE- ⑥
BIAS- ⑦
BIAS+ ⑧
GATE+ ⑨
NFB ⑩
GATE- ⑪
BIAS- ⑫
BIAS+ ⑬
GATE+ ⑭
NFB ⑮
GATE- ⑯
BIAS- ⑰
BIAS+ ⑱
FRch
Cch
FLch
I CN2002
K REAR AMP ASSY
(AWX7570)
CN2601
52045-1345
DC DET ⑬
AMP G ⑫
OL DET ⑪
GATE+ ⑩
NFB ⑨
GATE- ⑧
BIAS- ⑦
BIAS+ ⑥
GATE+ ⑤
NFB ④
GATE- ③
BIAS- ②
BIAS+ ①
SRch
SLch
I CN2101
D2624
Q2623
2SA970
C2621
NP
0.22/50
R2627
D2622
39k
R2625
22k
R2629
3.3k
R2628
39k
D2623
R2626
390
PUF
R2621
68
PUF
ACN7097
0.05
(5W+5W)
R2632
0.05
R2630
390
PUF
R2631
68
PUF
SR
J2604
ADB7012
Q2621
IRF540A (S)
D G S
IDLE CHK
IDLE CHK
IRF9540A (S)
Q2624
J2602
ADB7011
R2623
3.6k
Q2622
2SC4137
R2624
1k
D2625
D2621
VR2621
RCP1135
(470)
J2603
ADB7011
Q2601
IRF540A (S)
D2604
Q2603
2SA970
C2601
NP
0.22/50
R2607
D2602
39k
R2605
22k
R2609
3.3k
R2608
39k
D2603
R2606
390
PUF
R2601
68
PUF
ACN7097
0.05
(5W+5W)
R2612
0.05
R2610
390
PUF
R2611
68
PUF
SL
IDLE CHK
IDLE CHK
IRF9540A (S)
Q2604
J2601
ADB7012
R2603
3.6k
Q2602
2SC4137
R2604
1k
D2605
D2601
VR2601
RCP1135
(470)
C2651
2.2/100
C2652
2.2/100
③ VL+
② GND
① VL-
CN2602
AKC7002
L
J33
ADX7343
AMPOUT GREEN
(SR)
AMPOUT YELLOW
(SL)
J29
ADX7342
L
PUF: RD1/4PUF***J-T
NON FRAMABLE TYPE
DIODES WITHOUT INDICATION: 1SS133

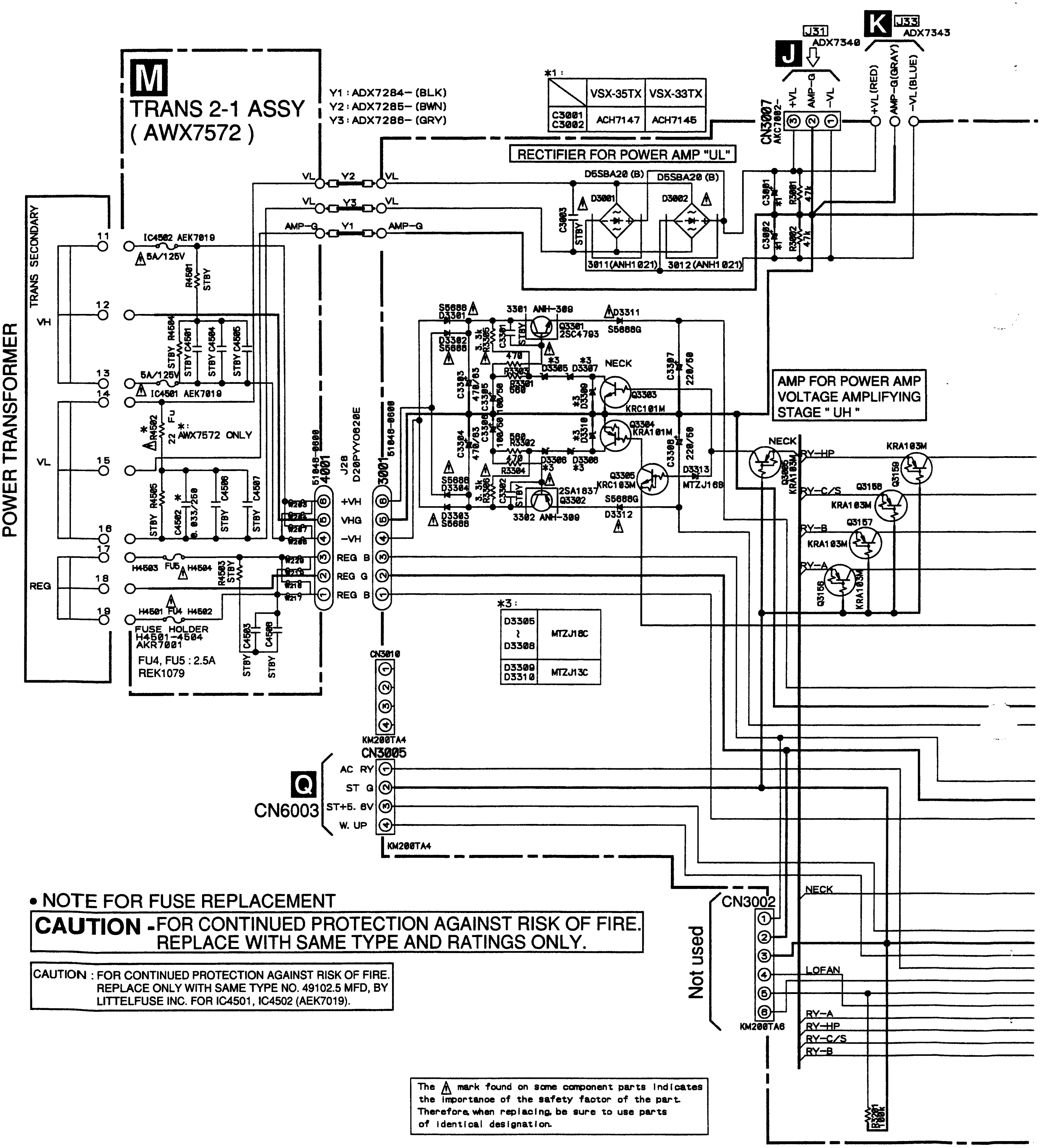
POWER AMP CURRENT AMPLIFYING STAGE


: AUDIO SIGNAL ROUTE
J2502 ADB7011
Q2521 IRF540A (S)
D2524
R2526 390 PUF
R2521 68 PUF
Q2523 2SA970
C2521 NP
0.22/50
D2522
R2527 39k
R2525 22k
ACN7097
0.05 (5W+5W)
IDLE CHK
2531 AKC-083-
AMPOUT (FR) ORANGE
R2529 3.3k
R2528 39k
D2523
R2532
0.05
FR
R2530 390 PUF
R2531 68 PUF
IRF9540A (S) Q2524
J2501 ADB7013
R2523 3.6k
Q2522 2SC4137
R2524 1k
D2525
D2521
VR2521 ACP1067 (470)
J2503 ADB7012
Q2541 IRF540A (S)
D2544
R2546 390 PUF
R2541 68 PUF
Q2543 2SA970
C2541 NP
0.22/50
D2542
R2547 39k
R2545 22k
ACN7097
0.05 (5W+5W)
IDLE CHK
2551 AKC-083-
AMPOUT (C) PURPLE
L
J30
ADX7341
R2549 3.3k
R2548 39k
D2543
R2552
0.05
C
R2550 390 PUF
R2551 68 PUF
IRF9540A (S) Q2544
R2543 3.6k
Q2542 2SC4137
R2544 1k
D2545
D2541
VR2541 ACP1067 (470)
J2508 ADB7012
J2506 ADB7011
J2504 ADB7013
Q2501 IRF540A (S)
D2504
R2506 390 PUF
R2501 68 PUF
Q2503 2SA970
C2501 NP
0.22/50
D2502
R2507 39k
R2505 22k
ACN7097
0.05 (5W+5W)
IDLE CHK
2511 AKC-083-
AMPOUT (FL) WHITE
R2509 3.3k
R2508 39k
D2503
R2512
0.05
FL
R2510 390 PUF
R2511 68 PUF
Q2504 IRF9540A (S)
J2507 T-ADB009
J2505 T-ADB011
R2503 3.6k
Q2502 2SC4137
R2504 1k
D2505
D2501
VR2501 ACP1067 (470)
J2501–J2508, J2801–J2604
X mm
VR2501, 2521, 2541–IDLE ADJUST
C2551 3.3/100
C2552 3.3/100
VL+ RED
AMP G BLACK
VL– BLUE
L
J31
ADX7340

		X
J2502 J2506 J2507 J2802 J2803	ADB7011	25. 50mm
J2503 J2508	ADB7012	58. 00mm
J2501 J2504 J2505 J2801 J2604	ADB7013	70. 00mm

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

3.14 SP/PS and TRANS 2-1 ASSYS


M
TRANS 2-1 ASSY
(AWX7572)
Y1 : ADX7284- (BLK)
Y2 : ADX7285- (BWN)
Y3 : ADX7286- (GRY)
POWER TRANSFORMER
TRANS SECONDARY
VH
VL
REG
11
12
13
14
15
16
17
18
19
IC4502 AEK7019
5A/125V
IC4501 AEK7019
R4501 STBY
STBY R4504
STBY C4501
STBY C4504
STBY C4505
R4502 22 Fu
*: AWX7572 ONLY
STBY R4505
C4502 0.033/250
STBY C4506
STBY C4507
H4503 FU5 H4504
H4501 FU4 H4502
R4503 STBY
C4503 STBY
C4508 STBY
FUSE HOLDER
H4501–4504
AKR7001
FU4, FU5 : 2.5A
REK1079
4001
51048-0600
J28
D20PYY0620E
3001
51048-0600
+VH
VHG
–VH
REG B
REG G
REG B
VL
Y2
Y3
AMP-G
Y1
*1 :
VSX-35TX
VSX-33TX
C3001
C3002
ACH7147
ACH7145
RECTIFIER FOR POWER AMP "UL"
D5SBA20 (B)
D3001
D3002
3011(ANH1021)
3012(ANH1021)
C3003 STBY
C3001
C3002
R3001 47k
R3002 47k
CN3007
AKC7002-
+VL
AMP-G
–VL
J
J31
ADX7340
K
J33
ADX7343
+VL(RED)
AMP-G(GRAY)
–VL(BLUE)
S5688 D3301
D3302 S5688
3301 ANH-309
Q3301 2SC4793
D3311 S5688G
R3305 3.3k
C3301
470
R3303
Q3301 560
D3305
D3307
*3
NECK
C3307 220/50
C3303 470/63
C3305 100/50
Q3303 KRC101M
D3309
D3310
Q3304 KRA101M
C3304 470/63
C3306 100/50
560 R3302
470 R3304
D3306
D3308
Q3305 KRC103M
2SA1837 Q3302
S5688G
D3312
3302 ANH-309
D3313 MTZJ16B
C3308 220/50
S5688 D3304
D3303 S5688
R3306 3.3k
C3302 STBY
AMP FOR POWER AMP VOLTAGE AMPLIFYING STAGE " UH "
NECK
KRA103M
Q3800
RY-HP
RY-C/S
Q3158
Q3159
KRA103M
RY-B
Q3157
KRA103M
RY-A
Q3156
KRA103M
*3 :
D3305 ~ D3308
MTZJ18C
D3309 D3310
MTZJ13C
CN3010
KM200TA4
CN3005
Q
CN6003
AC RY
ST G
ST+5.6V
W. UP
KM200TA4
CN3002
Not used
NECK
LOFAN
RY-A
RY-HP
RY-C/S
RY-B
KM200TA6
R3001 100k

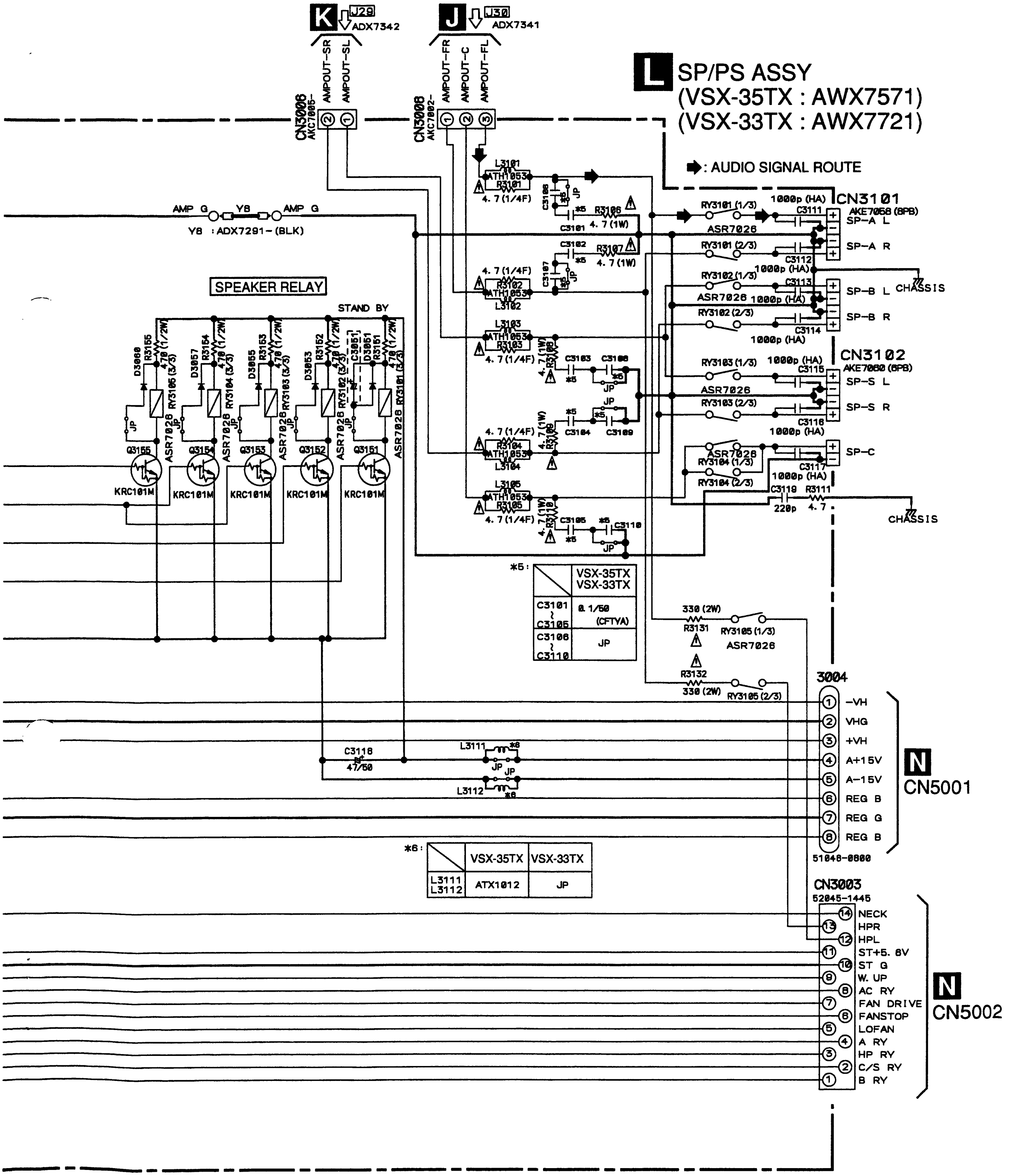
• NOTE FOR FUSE REPLACEMENT

CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS ONLY.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TYPE NO. 49102.5 MFD, BY LITTELFUSE INC. FOR IC4501, IC4502 (AEK7019).

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

L SP/PS ASSY (VSX-35TX : AWX7571) (VSX-33TX : AWX7721)


K
J29
ADX7342
AMPOUT-SR
AMPOUT-SL
CN3006
AKC7005-
J
J30
ADX7341
AMPOUT-FR
AMPOUT-C
AMPOUT-FL
CN3008
AKC7002-
: AUDIO SIGNAL ROUTE
AMP G
Y8
AMP G
Y8 : ADX7291-(BLK)
SPEAKER RELAY
STAND BY
L3101
ATH1053
R3101
4.7(1/4F)
C3106
JP
*5
C3101
R3106
4.7(1W)
C3102
R3107
4.7(1W)
C3107
R3102
L3102
L3103
R3103
C3103
C3108
C3104
C3109
R3104
L3104
L3105
R3105
C3105
C3110
R3108
R3109
R3110
4.7(1W)
RY3101(1/3)
RY3101(2/3)
RY3102(1/3)
RY3102(2/3)
RY3103(1/3)
RY3103(2/3)
RY3104(1/3)
RY3104(2/3)
ASR7026
1000p (HA)
C3111
C3112
C3113
C3114
C3115
C3116
C3117
C3119
220p
R3111
4.7
CN3101
AKE7058(8PB)
SP-A L
SP-A R
SP-B L
SP-B R
CHASSIS
CN3102
AKE7060(6PB)
SP-S L
SP-S R
SP-C
CHASSIS
D3060
R3155
D3057
R3154
D3055
R3153
D3053
R3152
D3051
R3151
C3051
NF
470(1/2W)
RY3105(3/3)
RY3104(3/3)
RY3103(3/3)
RY3102(3/3)
RY3101(3/3)
ASR7026
Q3155
Q3154
Q3153
Q3152
Q3151
KRC101M
330(2W)
R3131
RY3105(1/3)
ASR7026
R3132
330(2W)
RY3105(2/3)
3004
① -VH
② VHG
③ +VH
④ A+15V
⑤ A-15V
⑥ REG B
⑦ REG G
⑧ REG B
51048-0800
N
CN5001
C3118
47/50
L3111
*6
L3112
JP
CN3003
52045-1445
⑭ NECK
⑬ HPR
⑫ HPL
⑪ ST+5.6V
⑩ ST G
⑨ W. UP
⑧ AC RY
⑦ FAN DRIVE
⑥ FANSTOP
⑤ LOFAN
④ A RY
③ HP RY
② C/S RY
① B RY
N
CN5002
5
6
7
8
A
B
C
D

*5:

	VSX-35TX VSX-33TX
C3101 ~ C3105	0.1/50 (CFTYA)
C3106 ~ C3110	JP

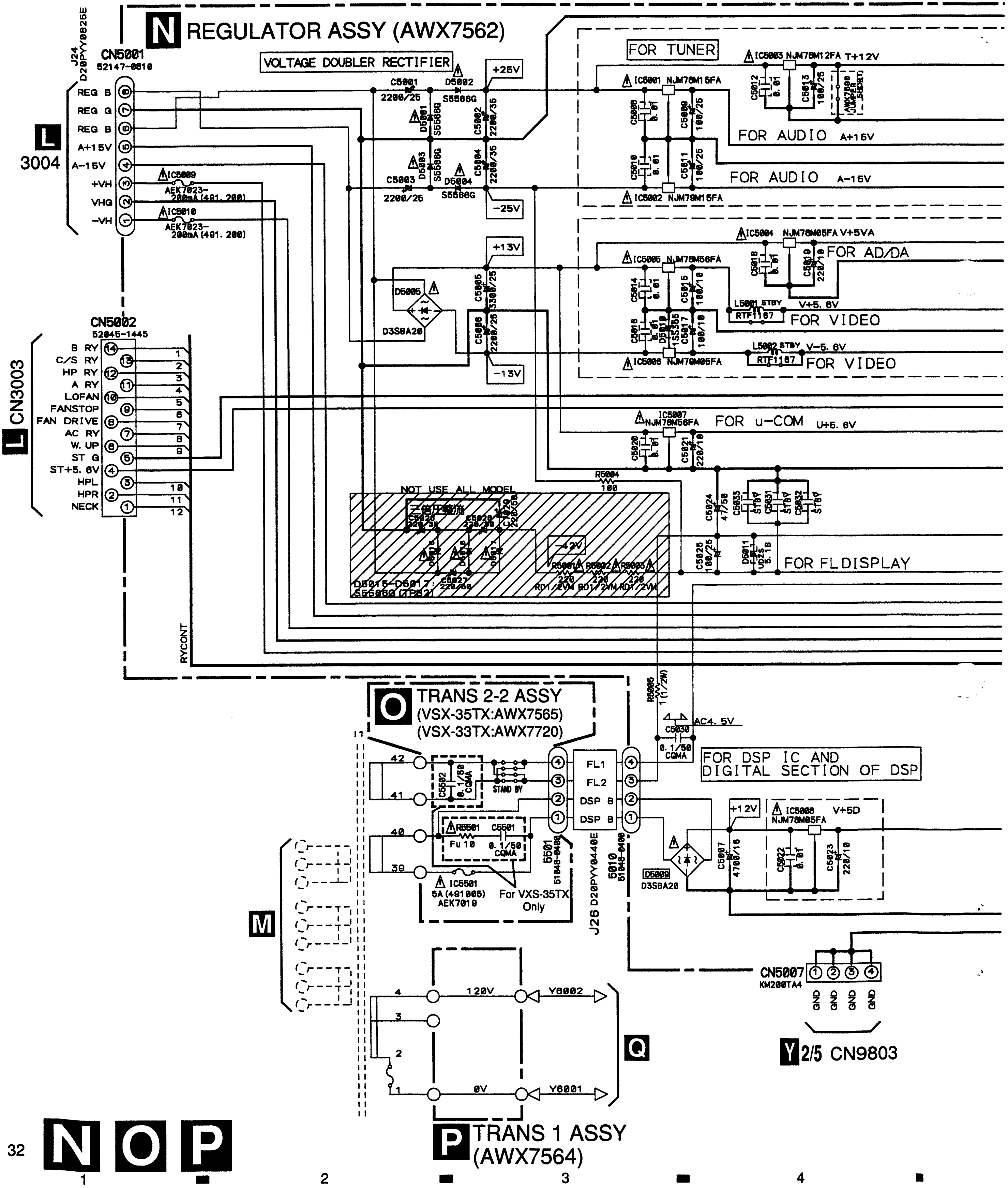
*6:

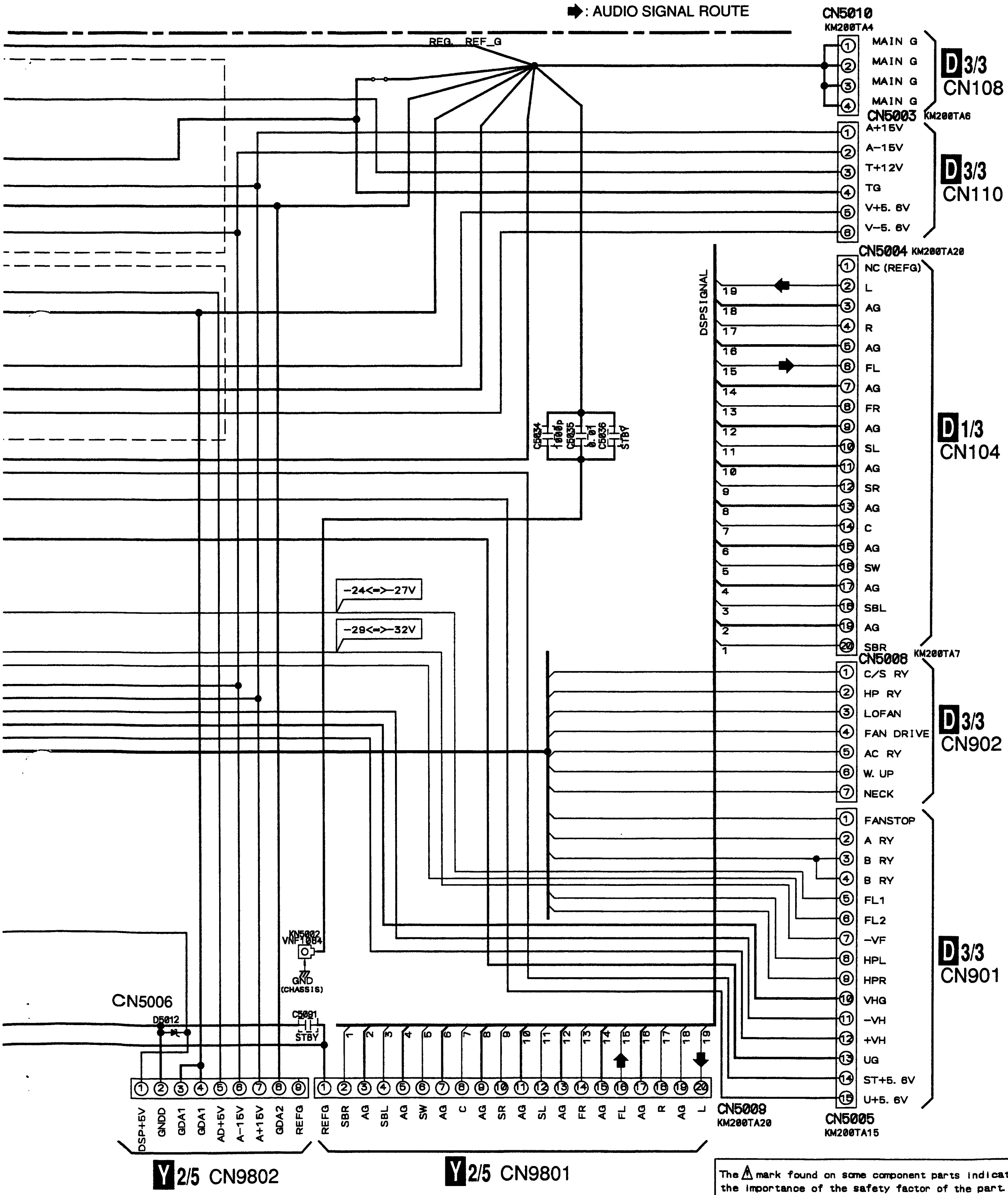
	VSX-35TX	VSX-33TX
L3111 L3112	ATX1012	JP

3.15 REGULATOR, TRANS 2-2 and TRANS 1 ASSYS

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.200 MFD, BY LITTELFUSE INC. FOR IC5009, IC5010 (AEK7023).

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491005 MFD, BY LITTELFUSE INC. FOR IC5501 (AEK7019).

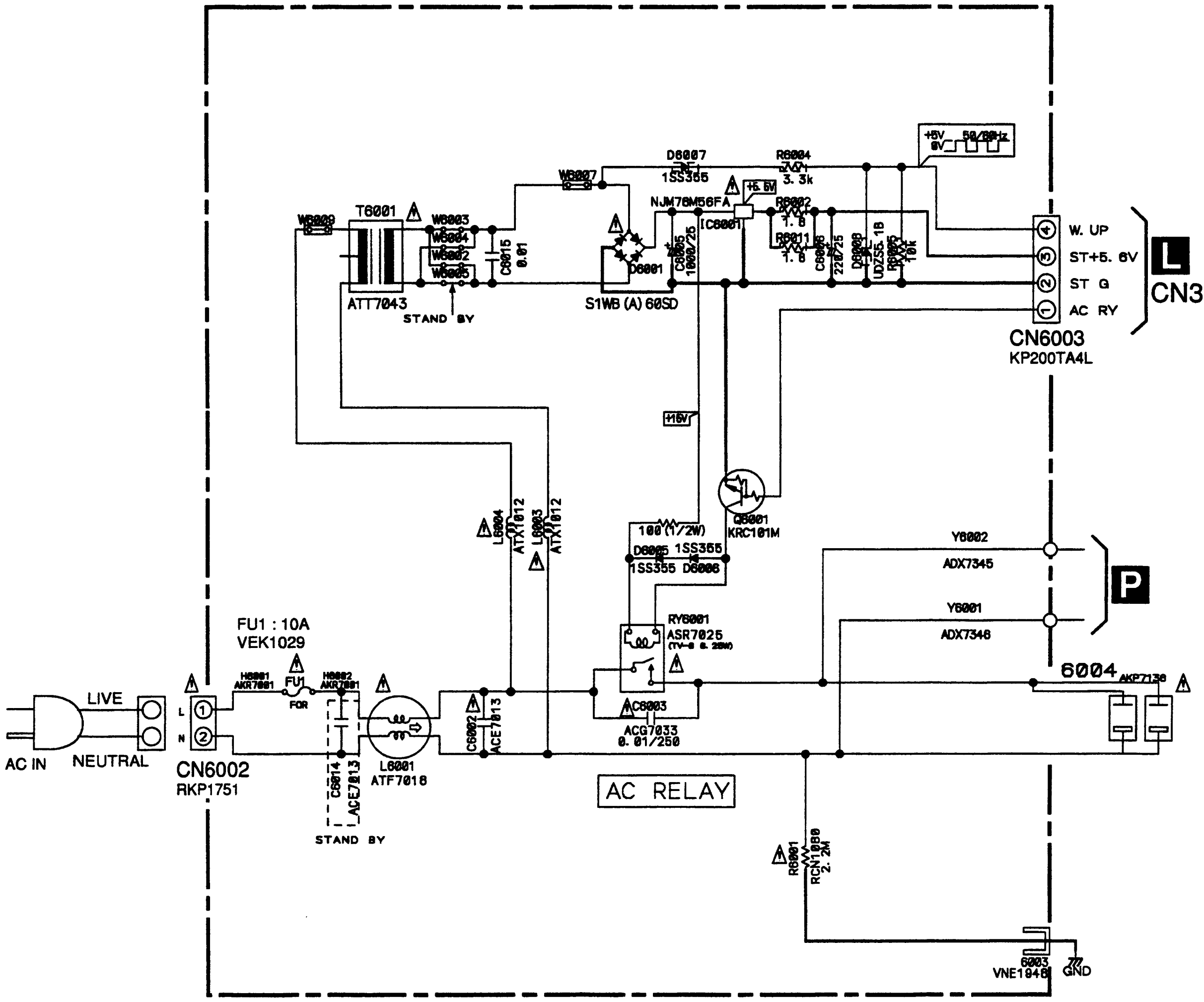

A
B
C
D
N REGULATOR ASSY (AWX7562)
J24 D20PYY0825E
CN5001 52147-0810
REG B
REG G
REG B
A+15V
A-15V
+VH
VHG
-VH
L 3004
IC5009 AEK7023-200mA (491.200)
IC5010 AEK7023-200mA (491.200)
VOLTAGE DOUBLER RECTIFIER
C5001 2200/25
D5002 S5566G
D5001 S5566G
C5002 2200/35
D5003 S5566G
C5004 2200/35
C5003 2200/25
D5004 S5566G
+25V
-25V
+13V
-13V
D5005 D3SBA20
C5005 3300/25
C5006 2200/25
FOR TUNER
IC5003 NJM78M12FA T+12V
IC5001 NJM78M15FA
C5008 0.01
C5009 100/25
C5012 0.01
C5013 100/25
AWX7590 JUMPER SHORT
FOR AUDIO A+15V
C5010 0.01
C5011 100/25
FOR AUDIO A-15V
IC5002 NJM79M15FA
IC5004 NJM78M05FA V+5VA
FOR AD/DA
C5018 0.01
C5019 220/10
IC5005 NJM78M56FA
C5014 0.01
C5015 100/10
L5001 STBY RTF1167
V+5.6V
FOR VIDEO
C5016 0.01
D5010 1SS355
C5017 100/10
L5002 STBY RTF1167
V-5.6V
FOR VIDEO
IC5006 NJM79M05FA
CN5002 52045-1445
B RY
C/S RY
HP RY
A RY
LOFAN
FANSTOP
FAN DRIVE
AC RY
W. UP
ST G
ST+5.6V
HPL
HPR
NECK
L CN3003
IC5007 NJM78M56FA
FOR u-COM U+5.6V
C5020 0.01
C5021 220/10
R5004 100
C5024 47/50
C5033 STBY
C5031 STBY
C5032 STBY
NOT USE ALL MODEL
C5028 220/50
C5026 220/50
C5029 220/50
D5015-D5017 : S5566G (TPB2)
C5027 220/50
-42V
R5001 220 RD1/2VM
R5002 220 RD1/2VM
R5003 220 RD1/2VM
C5025 100/25
D5011 UDZS 5.1B
FOR FL DISPLAY
RYCONT
R5005 1(1/2W)
AC4.5V
C5030 0.1/50 CQMA
O TRANS 2-2 ASSY (VSX-35TX:AWX7565) (VSX-33TX:AWX7720)
42
41
40
39
C5502 0.1/50 CQMA
STAND BY
R5501 Fu10
C5501 0.1/50 CQMA
IC5501 5A (491005) AEK7019
For VXS-35TX Only
5501 51048-0400
FL1
FL2
DSP B
DSP B
5010 51048-0400
J26 D20PYY0440E
FOR DSP IC AND DIGITAL SECTION OF DSP
+12V
IC5008 NJM78M05FA V+5D
D5009 D3SBA20
C5007 4700/16
C5022 0.01
C5023 220/10
M
CN5007 KM200TA4
GND
GND
GND
GND
Y 2/5 CN9803
4
3
2
1
120V
0V
Y6002
Y6001
Q
P TRANS 1 ASSY (AWX7564)


➡: AUDIO SIGNAL ROUTE
REG. REF_G
CN5010
KM200TA4
① MAIN G
② MAIN G
③ MAIN G
④ MAIN G
D 3/3
CN108
CN5003 KM200TA6
① A+15V
② A-15V
③ T+12V
④ TG
⑤ V+5. 6V
⑥ V-5. 6V
D 3/3
CN110
CN5004 KM200TA20
① NC (REFG)
② L
③ AG
④ R
⑤ AG
⑥ FL
⑦ AG
⑧ FR
⑨ AG
⑩ SL
⑪ AG
⑫ SR
⑬ AG
⑭ C
⑮ AG
⑯ SW
⑰ AG
⑱ SBL
⑲ AG
⑳ SBR
D 1/3
CN104
DSPSIGNAL
19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
C5034 1000p
C5035 0.01
C5036 STBY
-24<=>-27V
-29<=>-32V
CN5008 KM200TA7
① C/S RY
② HP RY
③ LOFAN
④ FAN DRIVE
⑤ AC RY
⑥ W. UP
⑦ NECK
D 3/3
CN902
① FANSTOP
② A RY
③ B RY
④ B RY
⑤ FL1
⑥ FL2
⑦ -VF
⑧ HPL
⑨ HPR
⑩ VHG
⑪ -VH
⑫ +VH
⑬ UG
⑭ ST+5. 6V
⑮ U+5. 6V
D 3/3
CN901
CN5005
KM200TA15
KN5002
VNF1084
GND (CHASSIS)
CN5006
D5012
C5001
STBY
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
① DSP+5V
② GNDD
③ GDA1
④ GDA1
⑤ AD+5V
⑥ A-15V
⑦ A+15V
⑧ GDA2
⑨ REFG
① REFG
② SBR
③ AG
④ SBL
⑤ AG
⑥ SW
⑦ AG
⑧ C
⑨ AG
⑩ SR
⑪ AG
⑫ SL
⑬ AG
⑭ FR
⑮ AG
⑯ FL
⑰ AG
⑱ R
⑲ AG
⑳ L
CN5009
KM200TA20
Y 2/5 CN9802
Y 2/5 CN9801

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

3.16 PRIMARY ASSY

Q PRIMARY ASSY (AWX7563)


W6009
T6001
ATT7043
W6003
W6004
W6002
W6005
STAND BY
C6015
0.01
W6007
D6007
1SS355
R6004
3.3k
+5V
0V
50/60Hz
NJM78M56FA
+5.6V
IC6001
D6001
S1WB (A) 60SD
C6005
1000/25
R6002
1.8
R6011
1.8
C6006
220/25
D6008
UDZS5.1B
R6005
10k
④ W. UP
③ ST+5.6V
② ST G
① AC RY
CN6003
KP200TA4L
L
CN3005
+15V
Q6001
KRC101M
100 (1/2W)
D6005 1SS355
1SS355 D6006
L6004
ATX1012
L6003
ATX1012
Y6002
ADX7345
Y6001
ADX7346
P
RY6001
ASR7025
(TV-8 0.20W)
C6003
ACG7033
0.01/250
6004
AKP7138
FU1 : 10A
VEK1029
H6001
AKR7001
FU1
FOR
H6002
AKR7001
LIVE
NEUTRAL
AC IN
L
N
CN6002
RKP1751
C6014
ACE7013
STAND BY
L6001
ATF7018
C6002
ACE7013
AC RELAY
R6001
RCN1080
2.2M
6003
VNE1948
GND

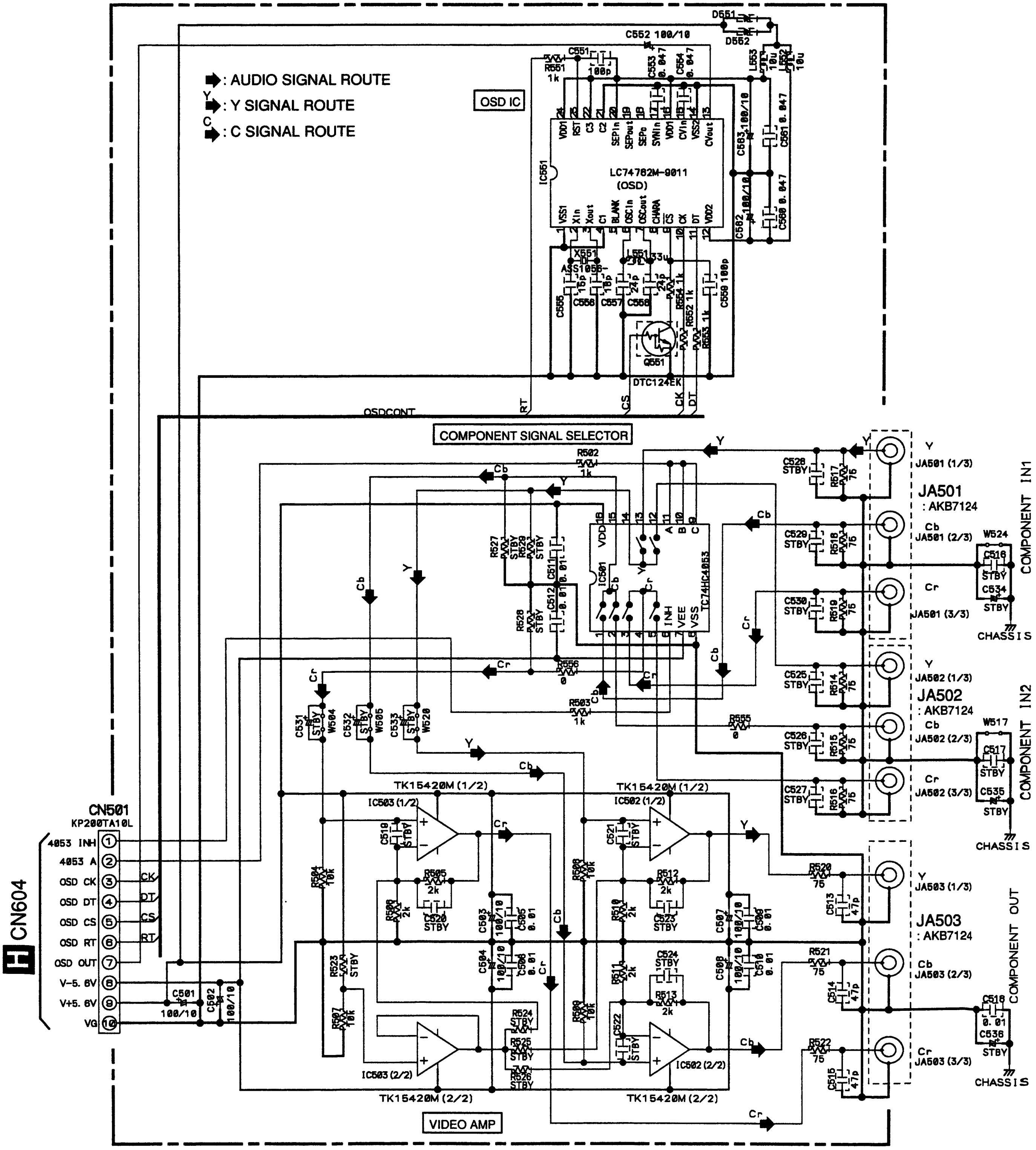
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

- NOTE FOR FUSE REPLACEMENT

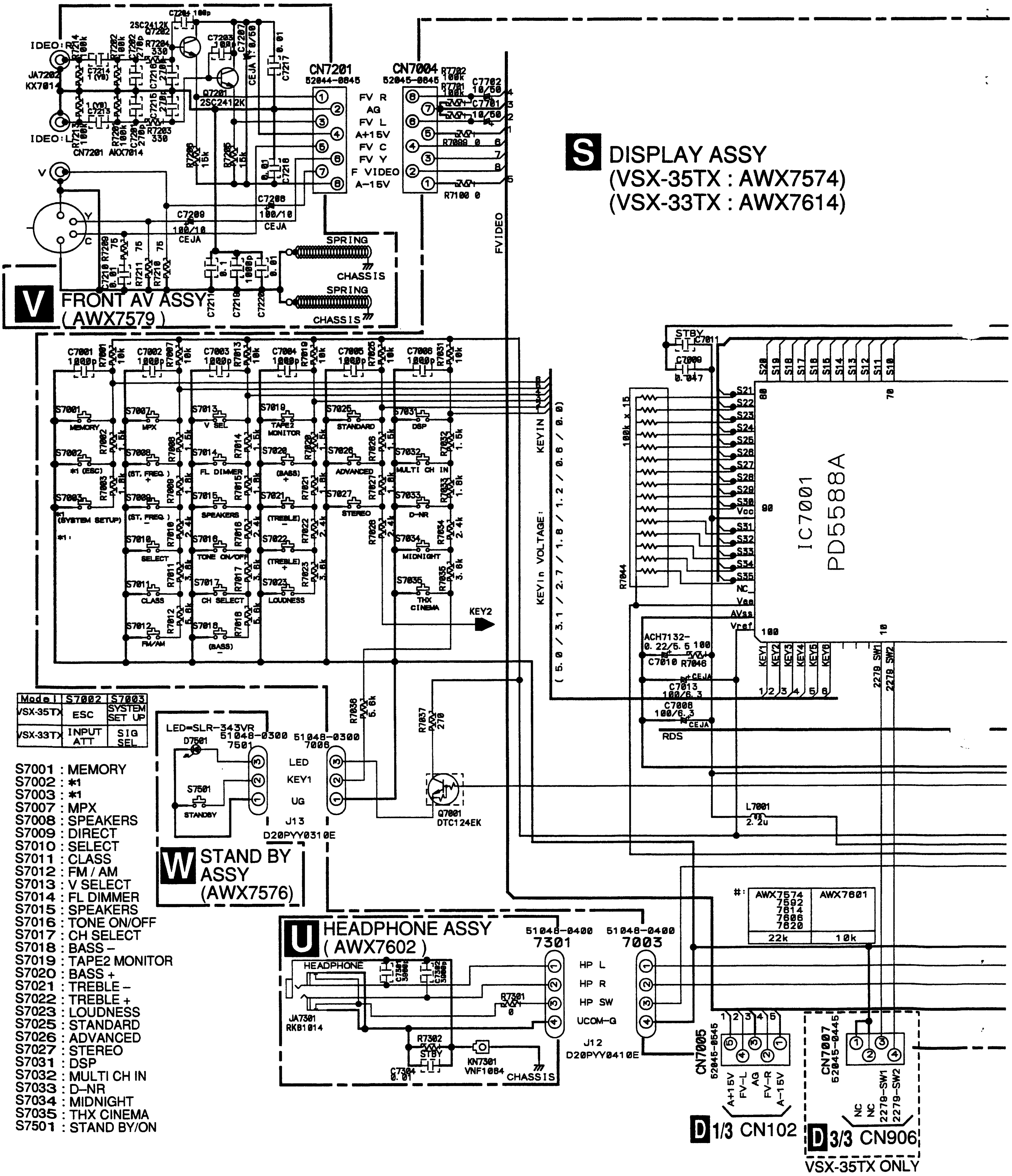
CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS ONLY.

3.17 COMPONENT ASSY (VSX-35TX ONLY)

R COMPONENT ASSY (AWX7582)

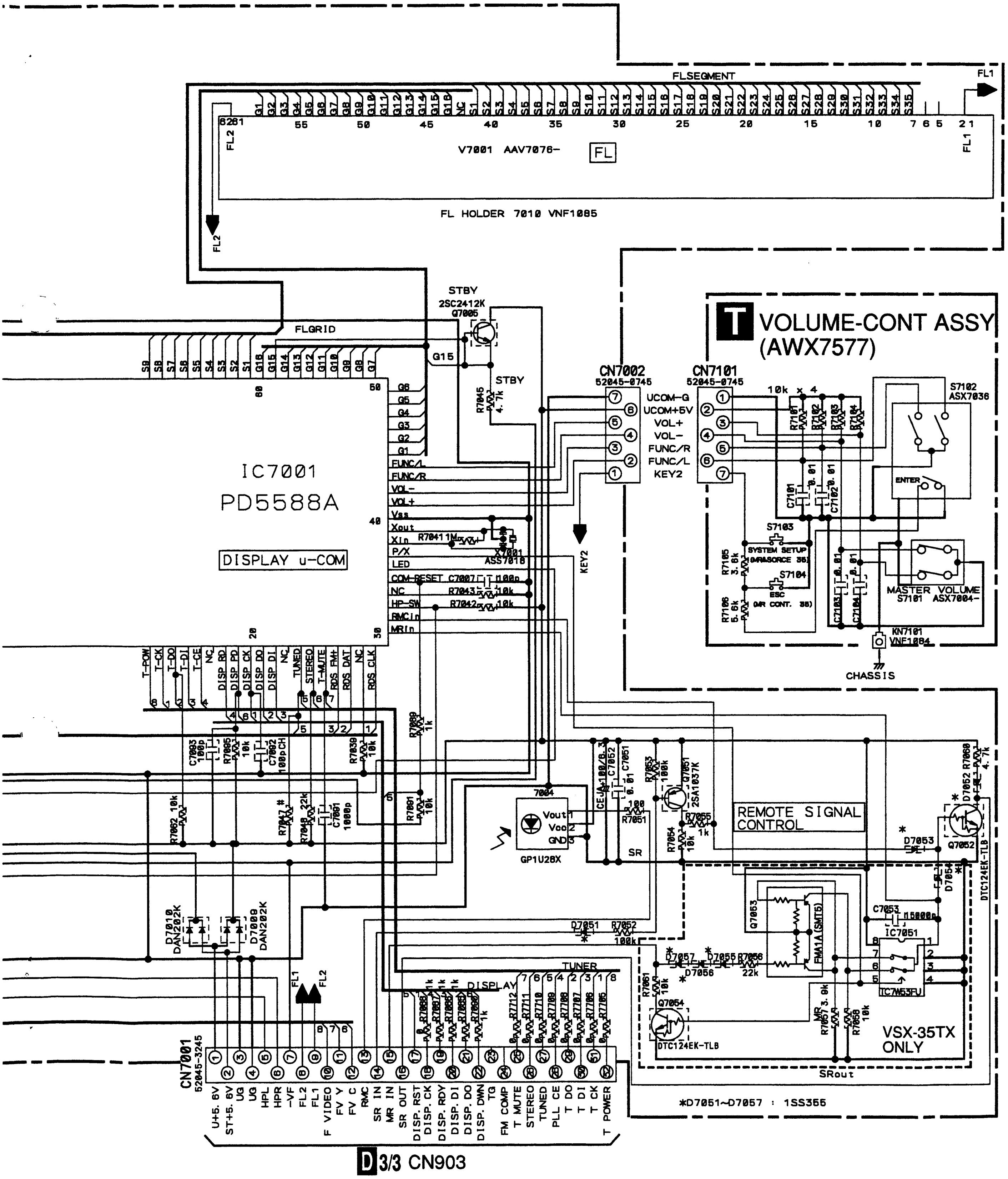

➡: AUDIO SIGNAL ROUTE
Y ➡: Y SIGNAL ROUTE
C ➡: C SIGNAL ROUTE
OSD IC
IC561
LC74782M-9011
(OSD)
VDD1
RST
C3
C2
SEPIn
SEPout
SEPo
SYNIn
VDD1
CVIn
VSS2
CVout
VSS1
XIn
Xout
C1
BLANK
OSCIn
OSCout
CHARA
CS
CK
DT
VDD2
D551
D552
C552 100/10
R551 1k
C551 100p
C553 0.047
C554 0.047
L553 10u
L552 10u
C563 100/10
C561 0.047
C562 100/10
C560 0.047
X551
ASS1056-
L551 33u
C555 15p
C556 15p
C557 24p
C558 24p
R554 1k
R552 1k
R553 1k
C559 100p
Q551
DTC124EK
OSDCONT
RT
CS
CK
DT
COMPONENT SIGNAL SELECTOR
R502 1k
IC501
TC74HC4053
VDD
INH
VEE
VSS
A
B
C
R527
R529 STBY
R528
C511 0.01
C512 0.01
R556 0
R503 1k
R555 0
C528 STBY
R517 75
C529 STBY
R518 75
C530 STBY
R519 75
C525 STBY
R514 75
C526 STBY
R515 75
C527 STBY
R516 75
Y
JA501 (1/3)
JA501
: AKB7124
Cb
JA501 (2/3)
Cr
JA501 (3/3)
W524
C516 STBY
C534 STBY
COMPONENT IN1
CHASSIS
Y
JA502 (1/3)
JA502
: AKB7124
Cb
JA502 (2/3)
Cr
JA502 (3/3)
W517
C517 STBY
C535 STBY
COMPONENT IN2
CHASSIS
C531 STBY
W504
C532 STBY
W505
C533 STBY
W520
TK15420M (1/2)
IC503 (1/2)
IC502 (1/2)
C519 STBY
C521 STBY
R505 2k
R512 2k
R504 10k
R509 10k
R506 2k
R510 2k
C520 STBY
C523 STBY
C503 100/10
C505 0.01
C507 100/10
C509 0.01
C504 100/10
C506 0.01
C508 100/10
C510 0.01
R523 STBY
R507 10k
R511 2k
C524 STBY
R513 2k
R508 10k
R524
R525 STBY
R526 STBY
C522 STBY
IC503 (2/2)
IC502 (2/2)
TK15420M (2/2)
VIDEO AMP
R520 75
C513 47p
R521 75
C514 47p
R522 75
C515 47p
Y
JA503 (1/3)
JA503
: AKB7124
Cb
JA503 (2/3)
Cr
JA503 (3/3)
C518 0.01
C536 STBY
COMPONENT OUT
CHASSIS
CN501
KP200TA10L
4053 INH ①
4053 A ②
OSD CK ③
OSD DT ④
OSD CS ⑤
OSD RT ⑥
OSD OUT ⑦
V-5.6V ⑧
V+5.6V ⑨
VG ⑩
CK
DT
CS
RT
C501 100/10
C502 100/10
H CN604

3.18 DISPLAY, VOLUME-CONT, HEADPHONE, FRONT AV and STAND BY ASSYS


S DISPLAY ASSY
(VSX-35TX : AWX7574)
(VSX-33TX : AWX7614)
V FRONT AV ASSY
(AWX7579)
W STAND BY ASSY
(AWX7576)
U HEADPHONE ASSY
(AWX7602)
CN7201
52044-0845
CN7004
52045-0845
FV R
AG
FV L
A+15V
FV C
FV Y
F VIDEO
A-15V
VIDEO:R
VIDEO:L
JA7202
KX7014
CN7201 AKX7014
Q7202 2SC2412K
Q7201 2SC2412K
SPRING
CHASSIS
FVIDEO
KEYIN
KEYIn VOLTAGE : (5.0 / 3.1 / 2.7 / 1.8 / 1.2 / 0.6 / 0.0)
KEY2
S7001 MEMORY
S7002 *1 (ESC)
S7003 *1 (SYSTEM SETUP)
S7007 MPX
S7008 (ST. FREQ. +)
S7009 (ST. FREQ. -)
S7010 SELECT
S7011 CLASS
S7012 FM/AM
S7013 V SEL
S7014 FL DIMMER
S7015 SPEAKERS
S7016 TONE ON/OFF
S7017 CH SELECT
S7018 (BASS) -
S7019 TAPE2 MONITOR
S7020 (BASS) +
S7021 (TREBLE) -
S7022 (TREBLE) +
S7023 LOUDNESS
S7025 STANDARD
S7026 ADVANCED
S7027 STEREO
S7031 DSP
S7032 MULTI CH IN
S7033 D-NR
S7034 MIDNIGHT
S7035 THX CINEMA
STBY
100k x 15
IC7001
PD5588A
ACH7132-
0.22/5.5
C7010 R7046
C7013 100/6.3
C7008 100/6.3
RDS
KEY1 KEY2 KEY3 KEY4 KEY5 KEY6
2279 SW1
2279 SW2
LED=SLR-343VR
D7501
S7501 STANDBY
51048-0300 7501
51048-0300 7006
LED
KEY1
UG
J13
D20PYY0310E
Q7001 DTC124EK
L7001 2.2u
#: AWX7574 7592 7614 7606 7620 | AWX7601
22k | 10k
HEADPHONE
JA7301 RKB1014
R7301
R7302
STBY
KN7301 VNF1084
CHASSIS
51048-0400 7301
51048-0400 7003
HP L
HP R
HP SW
UCOM-G
J12
D20PYY0410E
CN7005 52045-0545
A+15V FV-L AG FV-R A-15V
CN7007 52045-0445
NC NC 2279-SW1 2279-SW2
D 1/3 CN102
D 3/3 CN906
VSX-35TX ONLY

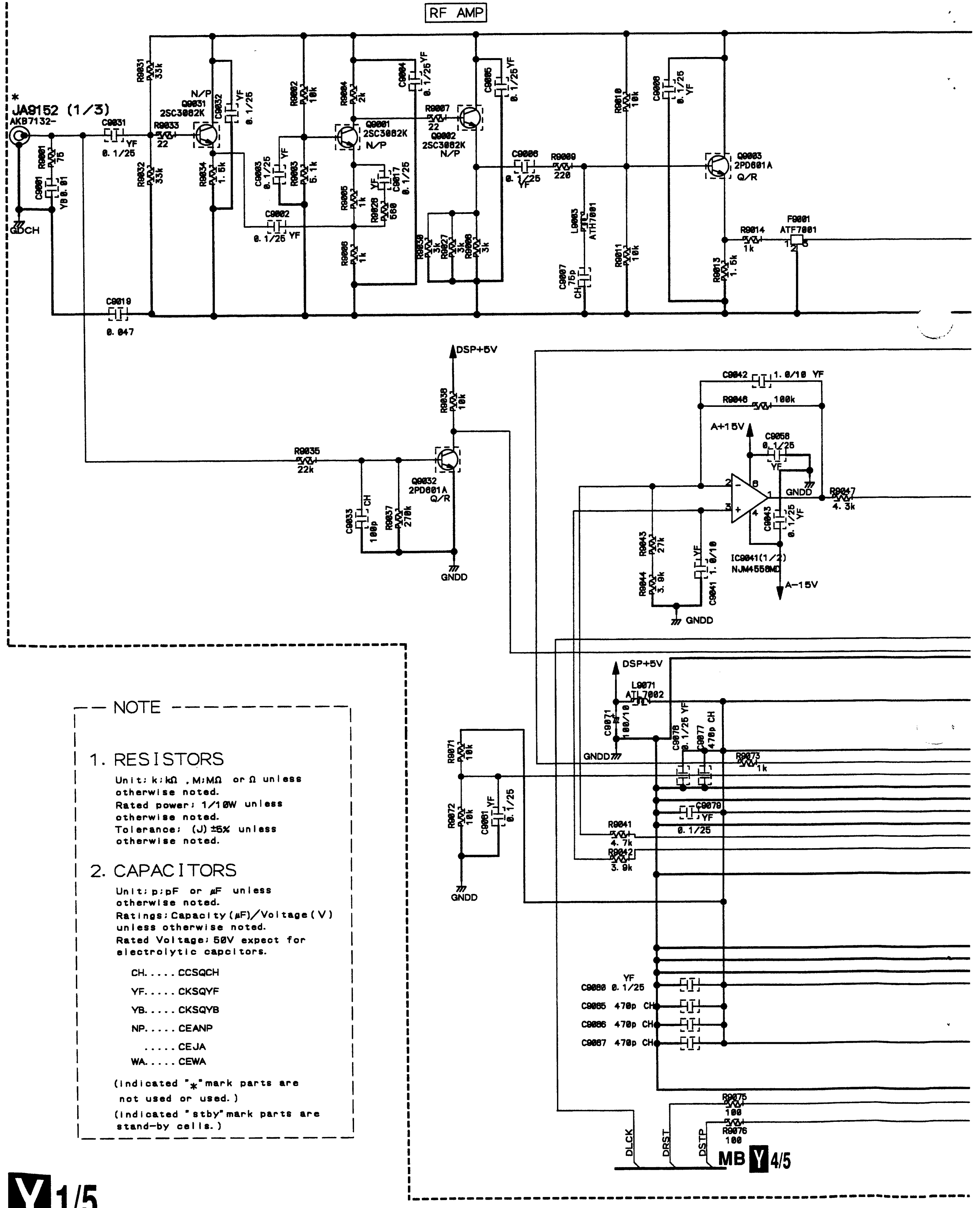
Model	S7002	S7003
VSX-35TX	ESC	SYSTEM SET UP
VSX-33TX	INPUT ATT	SIG SEL

S7001 : MEMORY
S7002 : *1
S7003 : *1
S7007 : MPX
S7008 : SPEAKERS
S7009 : DIRECT
S7010 : SELECT
S7011 : CLASS
S7012 : FM / AM
S7013 : V SELECT
S7014 : FL DIMMER
S7015 : SPEAKERS
S7016 : TONE ON/OFF
S7017 : CH SELECT
S7018 : BASS –
S7019 : TAPE2 MONITOR
S7020 : BASS +
S7021 : TREBLE –
S7022 : TREBLE +
S7023 : LOUDNESS
S7025 : STANDARD
S7026 : ADVANCED
S7027 : STEREO
S7031 : DSP
S7032 : MULTI CH IN
S7033 : D–NR
S7034 : MIDNIGHT
S7035 : THX CINEMA
S7501 : STAND BY/ON


FLSEGMENT
FL1
FL2
G1 G2 G3 G4 G5 G6 G7 G8 G9 G10 G11 G12 G13 G14 G15 G16 NC S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24 S25 S26 S27 S28 S29 S30 S31 S32 S33 S34 S35
6261 55 50 45 40 35 30 25 20 15 10 7 6 5 2 1
V7001 AAV7076-
FL
FL HOLDER 7010 VNF1085
STBY
2SC2412K
Q7005
G15
STBY
R7045 4.7k
FLGRID
S9 S8 S7 S6 S5 S4 S3 S2 S1 G16 G15 G14 G13 G12 G11 G10 G9 G8 G7
60 50
G6 G5 G4 G3 G2 G1 FUNC/L FUNC/R VOL- VOL+ Vss Xout Xin P/X LED COM-RESET NC HP-SW RMCin MRIn
40
IC7001
PD5588A
DISPLAY u-COM
R7041 1M
X7001 ASS7018
C7007 100p
R7043 10k
R7042 10k
20 30
T-POW T-CK T-DO T-DI T-CE DISP RD DISP PD DISP CK DISP DO DISP DI NC TUNED STEREO T-MUTE RDS FM+ RDS DAT NC RDS CLK
CN7002
52045-0745
CN7101
52045-0745
UCOM-G
UCOM+5V
VOL+
VOL-
FUNC/R
FUNC/L
KEY2
KEY2
T
VOLUME-CONT ASSY
(AWX7577)
10k x 4
R7101 R7102 R7103 R7104
S7102
ASX7036
ENTER
C7101 C7102 0.01 0.01
S7103
SYSTEM SETUP (MRASORCE 36)
S7104
ESC (MR CONT. 36)
R7105 3.6k
R7106 5.6k
C7103 0.01 C7104 0.01
MASTER VOLUME
S7101 ASX7004-
KN7101
VNF1084
CHASSIS
C7003 100p
R7005 10k
C7002 100pCH
R7039 10k
R7009 1k
R7062 10k
R7047 #
R7048 22k
C7001 1000p
R7001 10k
7004
Vout Vcc GND
GP1U28X
CEJA-100/6.3
C7052 C7051 0.01
R7051 100
R7053 100k
Q7051 2SA1037K
R7055 1k
R7054 10k
SR
REMOTE SIGNAL CONTROL
D7052 R7060 4.7k
D7053
Q7052
DTC124EK-TLB
D7054
D7010 DAN202K
D7009 DAN202K
D7051 R7052 100k
Q7053
FMA1A (SMT5)
C7053 15000p
IC7051
TC7W53FU
D7057 D7055 D7056 R7056 22k
R7061 10k
Q7054
DTC124EK-TLB
MR
R7057 3.9k
R7058 10k
VSX-35TX ONLY
SRout
*D7051~D7057 : 1SS355
TUNER
DISPLAY
R7066 R7067 R7068 R7069 1k
R7712 R7711 R7710 R7709 R7708 R7707 R7706 R7705
CN7001
52045-3245
U+5.6V ST+5.6V UG UG HPL HPR -VF FL2 FL1 F VIDEO FV Y FV C RMC SR IN MR IN SR OUT DISP. RST DISP. CK DISP. RDY DISP. DI DISP. DO DISP. DWN TG FM COMP T MUTE STEREO TUNED PLL CE T DO T DI T CK T POWER
D 3/3 CN903

3.19 DSP ASSY (1/5)

Y 1/5 DSP ASSY
(VSX-35TX : AWX7561)(VSX-33TX : AWX7611)


A
B
C
D
RF AMP
LD RF IN
*
JA9152 (1/3)
AKB7132-
GDCH
C9031 0.1/25 YF
R9001 75
C9001 YB0.01
R9031 33k
R9032 33k
R9033 22
N/P Q9031 2SC3082K
C9032 0.1/25 YF
R9034 1.5k
C9019 0.047
R9002 10k
C9003 0.1/25 YF
R9003 5.1k
C9002 0.1/25 YF
R9004 2k
Q9001 2SC3082K N/P
R9005 1k
R9028 560
C9017 0.1/25 YF
R9006 1k
C9004 0.1/25 YF
R9007 22
Q9002 2SC3082K N/P
C9005 0.1/25 YF
R9030 3k
R9027 3k
R9008 3k
C9006 0.1/25 YF
R9009 220
L9003 ATH7001
C9007 75p CH
R9010 10k
R9011 10k
C9008 0.1/25 YF
Q9003 2PD601A Q/R
R9014 1k
F9001 ATF7001
R9013 1.5k
DSP+5V
R9036 10k
R9035 22k
Q9032 2PD601A Q/R
C9033 100p CH
R9037 270k
GNDD
C9042 1.0/10 YF
R9046 100k
A+15V
C9056 0.1/25 YF
GNDD
R9047 4.3k
C9043 0.1/25 YF
IC9041(1/2) NJM4558MD
A-15V
R9043 27k
R9044 3.9k
C9041 1.0/10 YF
GNDD
DSP+5V
L9071 ATL7002
C9071 100/10
GNDD
C9076 0.1/25 YF
C9077 470p CH
R9073 1k
C9079 0.1/25 YF
R9071 10k
R9072 10k
C9061 0.1/25 YF
GNDD
R9041 4.7k
R9042 3.9k
C9080 0.1/25 YF
C9085 470p CH
C9086 470p CH
C9087 470p CH
R9075 100
R9076 100
DLCK
DRST
DSTP
MB Y 4/5

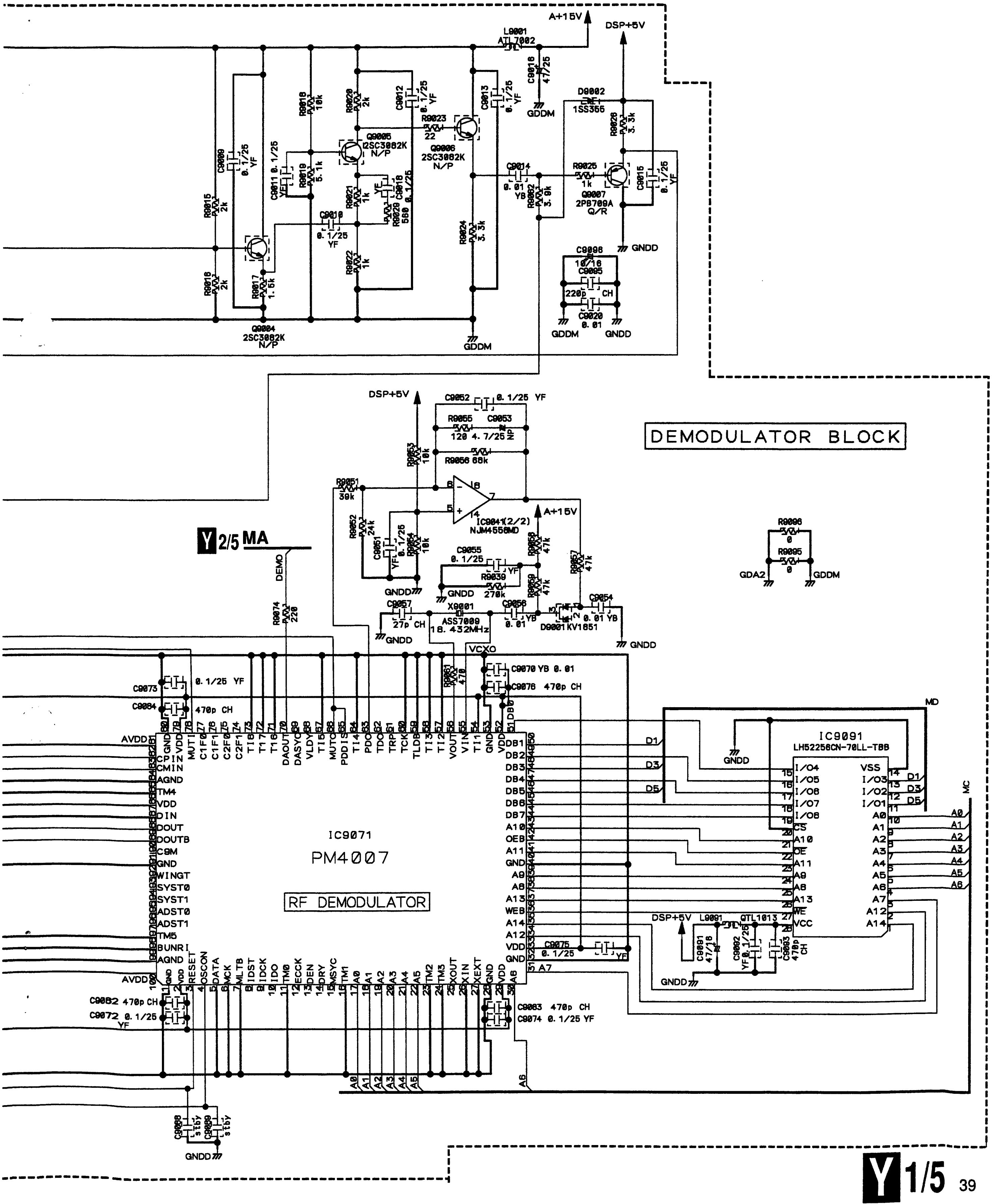
NOTE

1. RESISTORS
Unit: k:kΩ , M:MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.

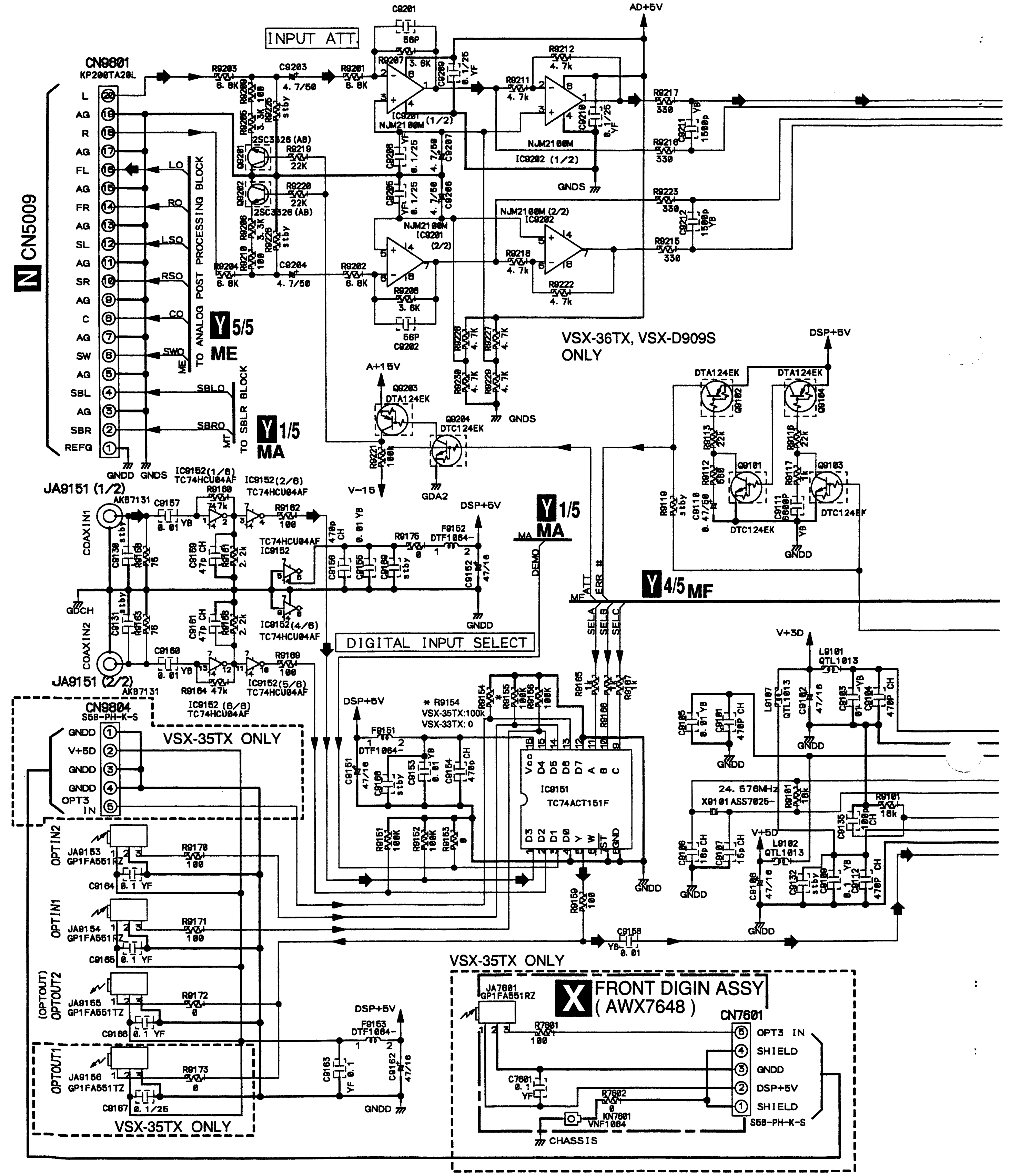
2. CAPACITORS
Unit: p:pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capcitors.

CH.....CCSQCH
YF.....CKSQYF
YB.....CKSQYB
NP.....CEANP
.....CEJA
WA.....CEWA

(indicated "*"mark parts are not used or used.)
(indicated "stby"mark parts are stand-by cells.)


A+15V
DSP+5V
L9001 ATL7002
C9018 47/25
GDDM
D9002 1SS355
R9026 3.3k
R9018 10k
R9020 2k
C9012 0.1/25 YF
C9013 0.1/25 YF
R9023 22
Q9005 2SC3082K N/P
Q9006 2SC3082K N/P
C9009 0.1/25 YF
C9011 0.1/25 YF
R9019 5.1k
R9015 2k
R9021 1k
C9018 0.1/25 YF
R9029 560
C9010 0.1/25 YF
C9014 0.01 YB
R9062 3.9k
R9025 1k
Q9007 2PB709A Q/R
C9015 0.1/25 YF
R9024 3.3k
R9022 1k
R9016 2k
R9017 1.5k
Q9004 2SC3082K N/P
GNDD
C9006 10/16
C9005 220p CH
C9020 0.01
GDDM
GNDD
DEMODULATOR BLOCK
C9052 0.1/25 YF
R9055 120
C9053 4.7/25 NP
R9053 10k
R9056 68k
R9051 39k
R9052 24k
C9051 0.1/25 YF
R9054 10k
IC9041(2/2) NJM4558MD
R9058 47k
R9057 47k
R9059 47k
C9055 0.1/25
R9039 270k
C9057 27p CH
X9001 ASS7009 18.432MHz
C9056 0.01 YB
D9001 KV1851
C9054 0.01 YB
R9096 0
R9095 0
GDA2
GDDM
Y 2/5 MA
DEMO
R9074 220
VCXO
R9061 470
C9070 YB 0.01
C9076 470p CH
C9073 0.1/25 YF
C9084 470p CH
AVDD
MD
IC9071
PM4007
RF DEMODULATOR
GND VDD MUTI C1F0 C1F1 C2F0 C2F1 TI8 TI7 TI6 DAOUT DASYC VLDY TI5 MUTC PDIS TI4 PDO TDO TRP TCK TLDB TI3 TI2 VOUT VIN TI1 GND VDD DB0
CPIN CMIN AGND TM4 VDD DIN DOUT DOUTB C8M GND WINGT SYST0 SYST1 ADST0 ADST1 TM5 BUNRI AGND
DB1 DB2 DB3 DB4 DB5 DB6 DB7 A10 OEB A11 GND A9 A8 A13 WEB A14 A12 VDD GND
GND VDD RESET OSCON DATA MCK MLTB IDST IDCK IDO TM0 ECCK DEN DRY MSYC TM1 A0 A1 A2 A3 A4 A5 TM2 TM3 XOUT XIN XEXT GND VDD A8
C9075 0.1/25 YF
A7
C9082 470p CH
C9072 0.1/25 YF
C9083 470p CH
C9074 0.1/25 YF
C9080 47/16
C9081 47/16
GNDD
A0 A1 A2 A3 A4 A5 A6
D1 D3 D5
IC9091
LH52256CN-70LL-TBB
I/O4 I/O5 I/O6 I/O7 I/O8 CS A10 OE A11 A9 A8 A13 WE VCC
VSS I/O3 I/O2 I/O1 A0 A1 A2 A3 A4 A5 A6 A7 A12 A14
DSP+5V
L9091 QTL1013
C9091 47/16
C9092 0.1/25 YF
C9093 470p CH
GNDD
MC

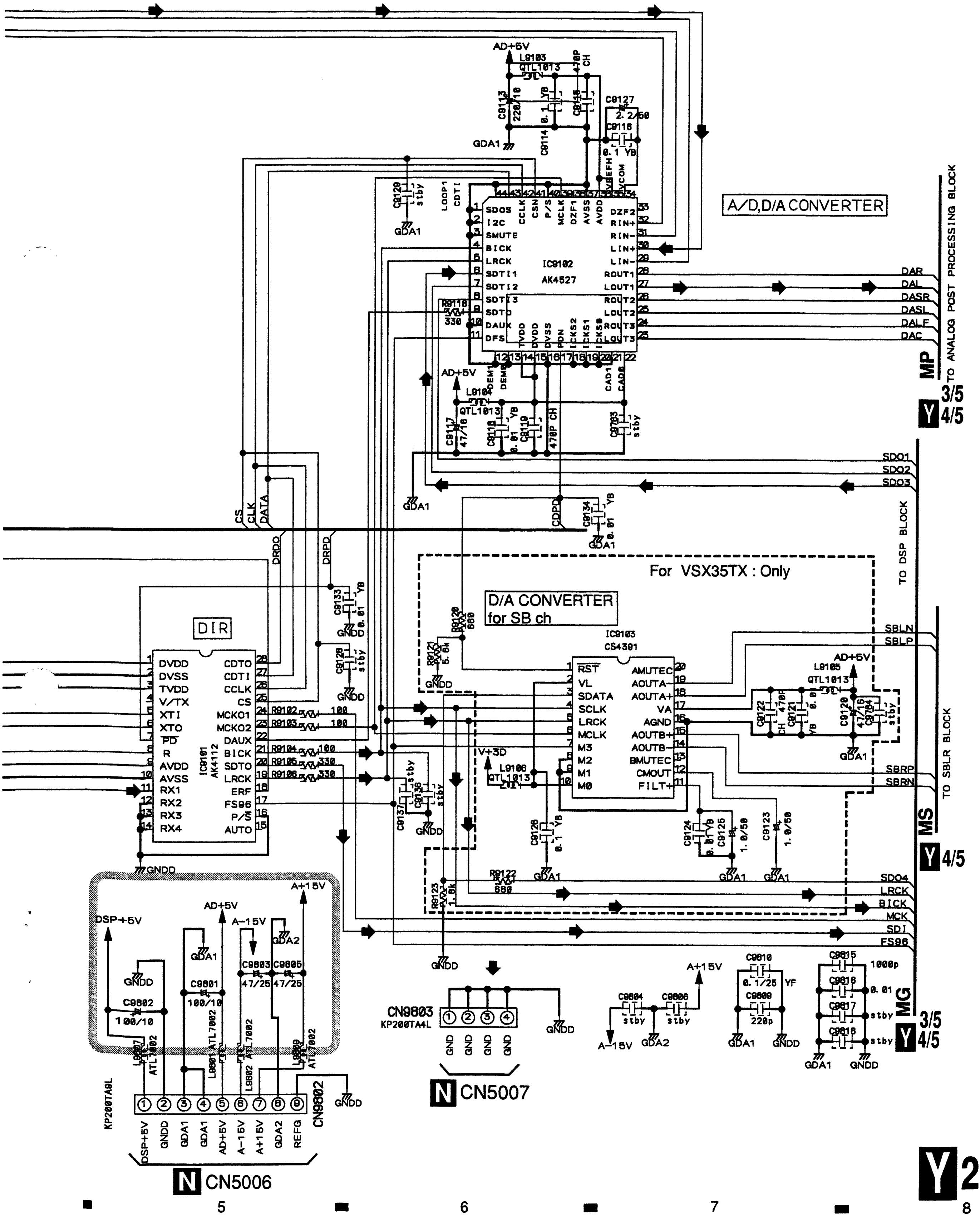
3.20 DSP (2/5) and FRONT DIGIN ASSYS


INPUT ATT.
AD+5V
C9201 56P
CN9601 KP200TA20L
L AG R AG FL AG FR AG SL AG SR AG C AG SW AG SBL AG SBR REFG
N CN5009
R9203 6.8K
C9203 4.7/50
R9201 6.8K
R9207 3.6K
C9209 0.1/25 YF
R9212 4.7k
R9211 4.7k
IC9201 NJM2100M (1/2)
NJM2100M
IC9202 (1/2)
R9217 330
C9211 1500p YB
R9216 330
GNDS
Q9201 2SC3326 (AB)
Q9202 2SC3326 (AB)
R9219 22K
R9220 22K
R9209 R9205 R9225 3.3K 100
R9206 R9210 R9226 3.3K 100
stby
C9206 0.1/25 YF
C9207 4.7/50
C9205 0.1/25 YF
C9208 4.7/50
C9210 0.1/25 YF
R9223 330
C9212 1500p YB
R9215 330
NJM2100M (2/2) IC9202
NJM2100M IC9201 (2/2)
R9218 4.7k
R9222 4.7k
R9204 6.8K
C9204 4.7/50
R9202 6.8K
R9208 3.6K
56P C9202
LO RO LSO RSO CO SWO
ME
TO ANALOG POST PROCESSING BLOCK
Y 5/5 ME
SBLO SBRO
MT
TO SBLR BLOCK
Y 1/5 MA
R9228 4.7K R9227 4.7K R9230 4.7K R9229 4.7K
GNDS
VSX-36TX, VSX-D909S ONLY
DSP+5V
DTA124EK Q9102
DTA124EK Q9104
R9113 22k
R9116 22k
R9112 680
R9117 1k
Q9101
Q9103
DTC124EK
R9110 stby
C9110 0.47/50
C9111 5600P
YB
GNDD
A+15V
Q9203 DTA124EK
Q9204 DTC124EK
R9221 100k
V-15
GDA2
GNDD GNDS
IC9152(1/6) TC74HCU04AF
IC9152(2/6) TC74HCU04AF
JA9151 (1/2)
AKB7131
C9157 0.01 YB
R9160 47k
R9162 100
DSP+5V
Y 1/5 MA
MA
COAXIN1
C9130 stby
R9158 75
C9159 47p CH
R9161 2.2k
TC74HCU04AF IC9152
470p CH
0.01 YB
R9175
F9152 DTF1064-
C9156 C9155 C9169 stby
C9152 47/16
DEMO
ATT ERR #
Y 4/5 MF
MF
GDCH
COAXIN2
C9131 stby
R9163 75
C9161 47p CH
R9166 2.2k
IC9152(4/6) TC74HCU04AF
GNDD
DIGITAL INPUT SELECT
SELA SELB SELC
V+3D
L9101 QTL1013
C9160 0.01 YB
R9164 47k
R9169 100
JA9151 (2/2)
AKB7131
IC9152(5/6) TC74HCU04AF
IC9152 (6/6) TC74HCU04AF
CN9604 S5B-PH-K-S
GNDD V+5D GNDD GNDD OPT3 IN
VSX-35TX ONLY
DSP+5V
* R9154 VSX-35TX:100k VSX-33TX: 0
R9154 R9155 100k R9156 100k R9157 100k
R9165 1k R9168 1k R9167 1k
F9151 DTF1064-
C9151 47/16
C9168 stby
C9153 0.01 YB
C9154 470p CH
IC9151 TC74ACT151F
Vcc D4 D5 D6 D7 A B C
D3 D2 D1 D0 Y W ST GND
R9151 100k R9152 100k R9153 0
C9105 0.01 YB
C9101 470P CH
L9107 QTL1013
C9102 47/16
C9103 0.1 YB
C9104 470P CH
24.576MHz X9101 ASS7025-
R9101 18k
C9135 100P CH
C9106 15p CH
C9107 15p CH
V+5D
L9102 QTL1013
C9108 47/16
C9132 stby
C9109 0.1 YB
470P CH
R9159 100
C9158 0.01 YB
OPTIN2
JA9153 GP1FA551RZ
R9170 100
C9164 0.1 YF
OPTIN1
JA9154 GP1FA551RZ
R9171 100
C9165 0.1 YF
(OPTOUT) OPTOUT2
JA9155 GP1FA551TZ
R9172 0
C9166 0.1 YF
OPTOUT1
JA9156 GP1FA551TZ
R9173 0
C9167 0.1/25
VSX-35TX ONLY
DSP+5V
F9153 DTF1064-
C9163 YF 0.1
C9162 47/16
GNDD
VSX-35TX ONLY
X FRONT DIGIN ASSY (AWX7648)
JA7601 GP1FA551RZ
R7601 100
CN7601
OPT3 IN SHIELD GNDD DSP+5V SHIELD
C7601 0.1 YF
R7602 0
KN7601 VNF1064
S5B-PH-K-S
CHASSIS

Y 2/5 DSP ASSY
(VSX-35TX : AWX7561)
(VSX-33TX : AWX7611)

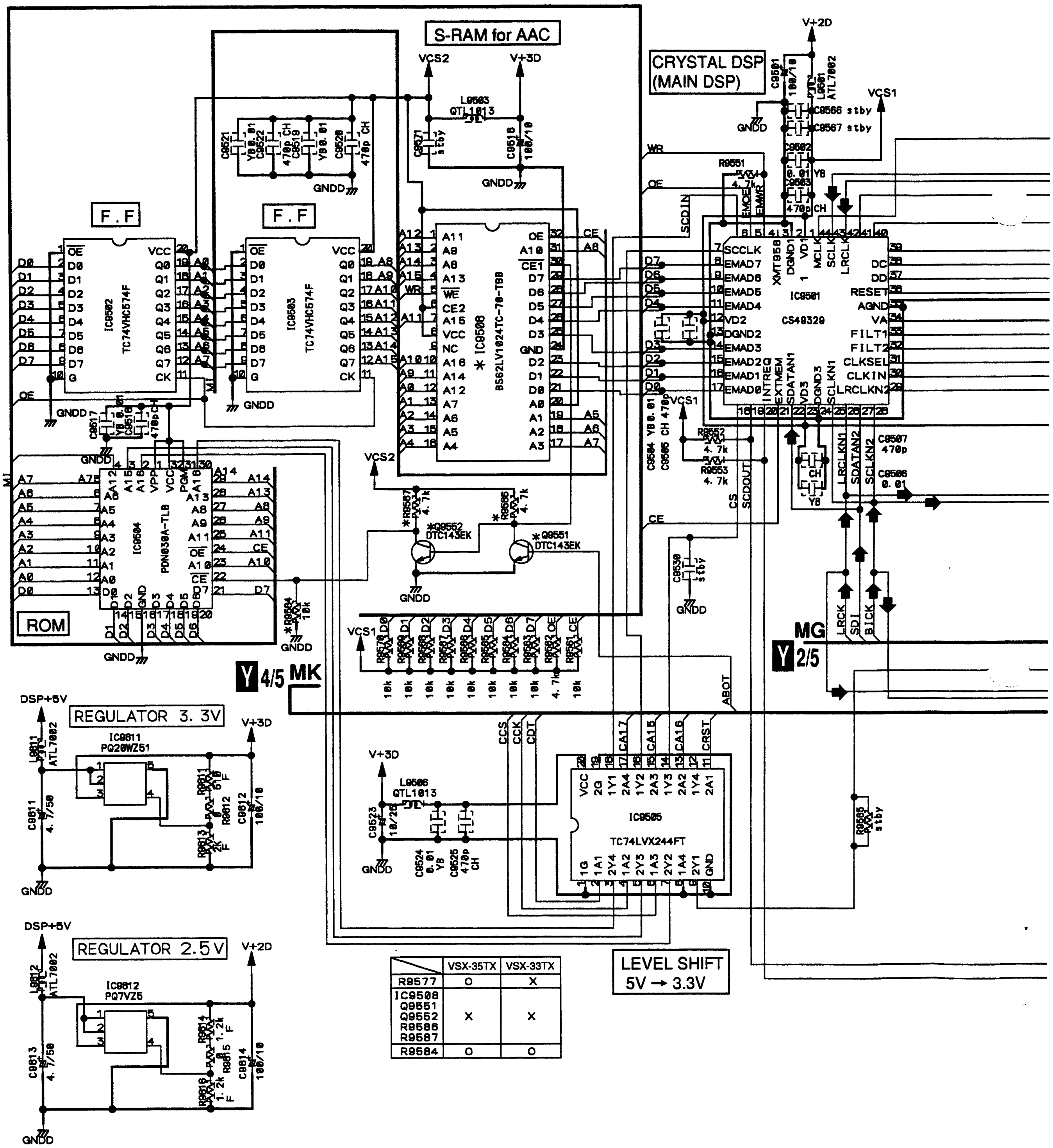
➡: AUDIO SIGNAL ROUTE

▭ : The power supply is shown with the marked box.

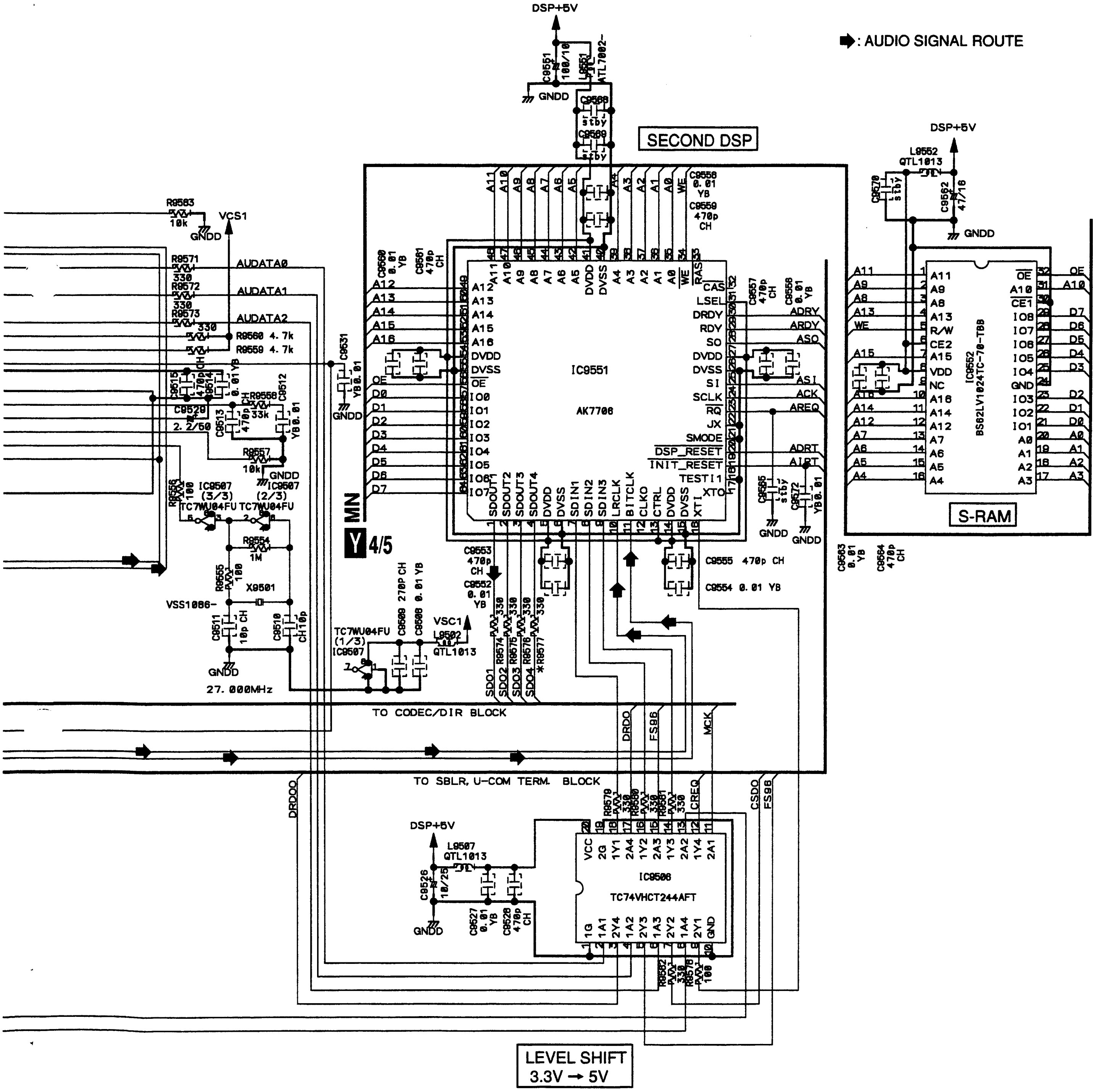

A/D,D/A CONVERTER
IC9102
AK4527
SDOS
I2C
SMUTE
BICK
LRCK
SDTI1
SDTI2
SDTI3
SDTO
DAUX
DFS
DZF2
RIN+
RIN-
LIN+
LIN-
ROUT1
LOUT1
ROUT2
LOUT2
ROUT3
LOUT3
CCLK
CSN
P/S
MCLK
DZF1
AVSS
AVDD
VREFH
VCOM
LOOP1
CDTI
TVDD
DVDD
DVSS
PDN
CKS2
CKS1
CKS0
DEM1
DEM0
CAD1
CAD0
AD+5V
L9103
QTL1013
C9113
220/10
C9114
0.1 YB
C9115
470P CH
C9127
2.2/50
C9116
0.1 YB
GDA1
C9120
stby
R9118
330
L9104
QTL1013
C9117
47/16
C9118
0.01 YB
C9119
470P CH
C9783
stby
C9134
0.01 YB
DAR
DAL
DASR
DASL
DALF
DAC
TO ANALOG POST PROCESSING BLOCK
MP
Y 3/5
Y 4/5
SDO1
SDO2
SDO3
TO DSP BLOCK
CS
CLK
DATA
CDPD
DRDO
DRPD
DIR
IC9101
AK4112
DVDD
DVSS
TVDD
V/TX
XTI
XTO
PD
R
AVDD
AVSS
RX1
RX2
RX3
RX4
CDTO
CDTI
CCLK
CS
MCKO1
MCKO2
DAUX
BICK
SDTO
LRCK
ERF
FS96
P/S
AUTO
R9102 100
R9103 100
R9104 100
R9105 330
R9106 330
C9133
0.01 YB
C9128
stby
GNDD
C9137
C9136
stby
For VSX35TX : Only
D/A CONVERTER
for SB ch
IC9103
CS4391
RST
VL
SDATA
SCLK
LRCK
MCLK
M3
M2
M1
M0
AMUTEC
AOUTA-
AOUTA+
VA
AGND
AOUTB+
AOUTB-
BMUTEC
CMOUT
FILT+
R9120
680
R9121
5.6k
V+3D
L9106
QTL1013
C9126
0.1 YB
L9105
QTL1013
C9122
470P CH
C9121
0.01 YB
C9129
47/16
C9784
stby
C9124
0.01 YB
C9125
1.0/50
C9123
1.0/50
R9122
680
R9123
1.8k
SBLN
SBLP
SBRP
SBRN
TO SBLR BLOCK
MS
Y 4/5
SDO4
LRCK
BICK
MCK
SDI
FS96
MG
Y 3/5
Y 4/5
DSP+5V
AD+5V
A-15V
A+15V
GDA2
C9802
100/10
C9801
100/10
C9803
47/25
C9805
47/25
L9807
L9801
L9802
L9809
ATL7002
KP200TA9L
CN9802
DSP+5V
GNDD
GDA1
GDA1
AD+5V
A-15V
A+15V
GDA2
REFG
N CN5006
CN9803
KP200TA4L
GND
GND
GND
GND
N CN5007
C9804
stby
C9806
stby
C9810
0.1/25 YF
C9809
220p
C9815
1000p
C9816
0.01
C9817
stby
C9818
stby

3.21 DSP ASSY (3/5)

Y 3/5 DSP ASSY
(VSX-35TX : AWX7561)(VSX-33TX : AWX7611)


S-RAM for AAC
CRYSTAL DSP (MAIN DSP)
F.F
IC9502 TC74VHC574F
IC9503 TC74VHC574F
IC9508 BS62LV1024TC-70-TBB
IC9504 PDN030A-TLB
ROM
IC9501 CS49329
IC9505 TC74LVX244FT
LEVEL SHIFT 5V → 3.3V
REGULATOR 3. 3V
IC9811 PQ20WZ51
REGULATOR 2.5V
IC9812 PQ7VZ5
Q9552 DTC143EK
Q9551 DTC143EK
L9503 QTL1013
L9506 QTL1013
L9501 ATL7002
L9811 ATL7002
L9812 ATL7002
VCS1
VCS2
V+3D
V+2D
DSP+5V
GNDD
Y 4/5 MK
MG Y 2/5
LRCK
SDI
BICK
ABOT
CCS
CCK
CDT
CA17
CA15
CA16
CRST
WR
OE
CE
SCDIN
SCDOUT
CS

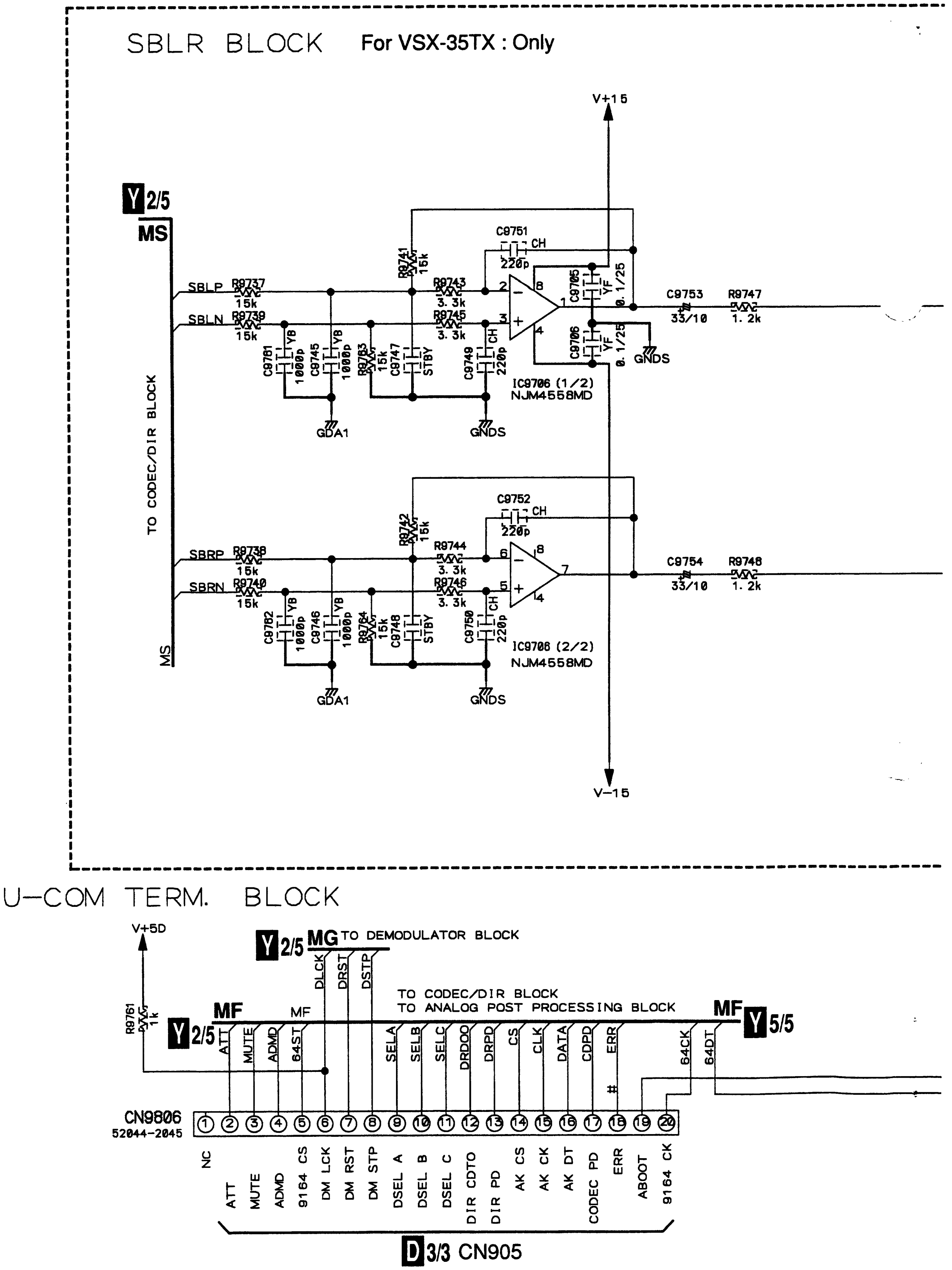
	VSX-35TX	VSX-33TX
R9577	O	X
IC9508 Q9551 Q9552 R9586 R9587	X	X
R9584	O	O

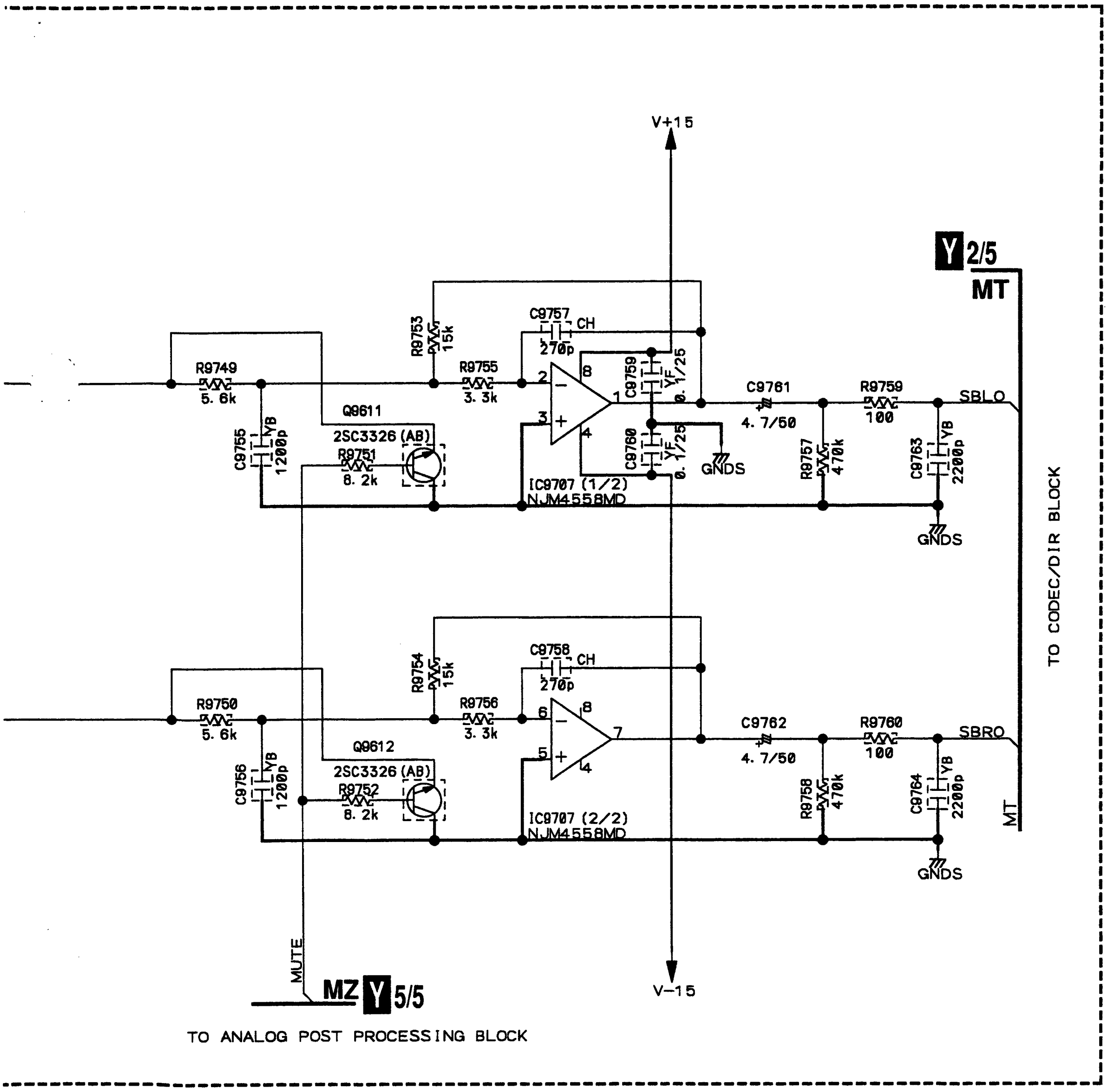

DSP+5V
C9551 100/10
L9551 ATL7002-
GNDD
C9568 stby
C9569 stby
SECOND DSP
: AUDIO SIGNAL ROUTE
C9558 0.01 YB
C9559 470p CH
C9560 0.01 YB
C9561 470p CH
IC9551
AK7706
A11 A10 A9 A8 A7 A6 A5 DVDD DVSS A4 A3 A2 A1 A0 WE RAS
A12 A13 A14 A15 A16 DVDD DVSS OE IO0 IO1 IO2 IO3 IO4 IO5 IO6 IO7
CAS LSEL DRDY RDY SO DVDD DVSS SI SCLK RQ JX SMODE DSP_RESET INIT_RESET TEST1 XTO
SDOUT1 SDOUT2 SDOUT3 SDOUT4 DVDD DVSS SDIN1 SDIN2 SDIN3 LRCLK BITCLK CLKO CTRL DVDD DVSS XTI
ADRY ARDY ASO ASI ACK AREQ ADRT AIRT
C9557 470p CH
C9556 0.01 YB
C9565 stby
C9572 0.01 YB
GNDD
C9553 470p CH
C9552 0.01 YB
C9555 470p CH
C9554 0.01 YB
C9531 0.01 YB
R9563 10k
VCS1
R9571 330
R9572 330
R9573 330
AUDATA0
AUDATA1
AUDATA2
R9560 4.7k
R9559 4.7k
C9515 470p CH
C9514 0.01 YB
C9512 0.01 YB
R9558 33k
C9529 2.2/50
C9513 470p
R9557 10k
R9556 100
IC9507 (3/3) TC7WU04FU
IC9507 (2/3) TC7WU04FU
R9554 1M
R9555 100
X9501
VSS1086-
C9511 10p CH
C9510 10p CH
27.000MHz
TC7WU04FU (1/3) IC9507
C9509 270P CH
C9508 0.01 YB
VSC1
L9502 QTL1013
R9574 330
R9575 330
R9576 330
R9577 330
SDO1 SDO2 SDO3 SDO4
MN
Y 4/5
TO CODEC/DIR BLOCK
DRDO
FS96
MCK
TO SBLR, U-COM TERM. BLOCK
DRDOO
CSDO
FS96
L9552 QTL1013
C9570 stby
C9562 47/16
IC9552
BS62LV1024TC-70-TBB
A11 A9 A8 A13 R/W CE2 A15 VDD NC A16 A14 A12 A7 A6 A5 A4
OE A10 CE1 IO8 IO7 IO6 IO5 IO4 GND IO3 IO2 IO1 A0 A1 A2 A3
D7 D6 D5 D4 D3 D2 D1 D0
S-RAM
C9563 0.01 YB
C9564 470p CH
L9507 QTL1013
C9526 10/25
C9527 0.01 YB
C9528 470p CH
IC9506
TC74VHCT244AFT
VCC 2G 1Y1 2A4 1Y2 2A3 1Y3 2A2 1Y4 2A1
1G 1A1 2Y4 1A2 2Y3 1A3 2Y2 1A4 2Y1 GND
R9579 330
R9580 330
R9581 330
R9582 330
R9578 100
CREQ
LEVEL SHIFT
3.3V → 5V

A B C D

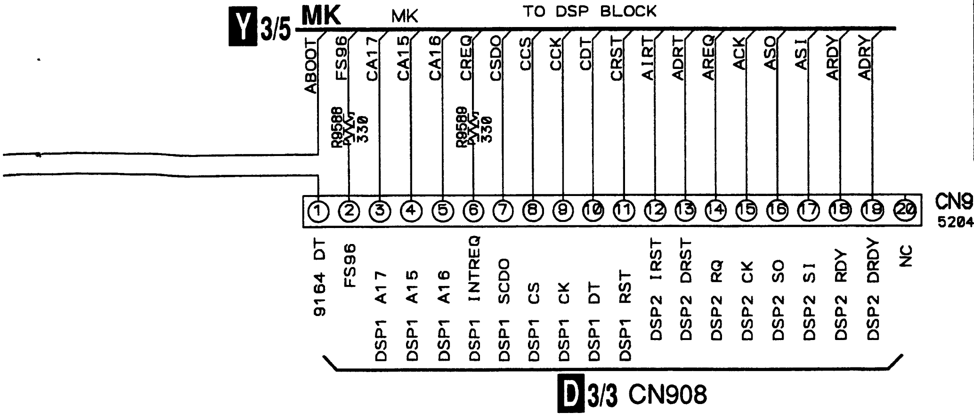
3.22 DSP ASSY (4/5)

Y 4/5 DSP ASSY
(VSX-35TX : AWX7561) (VSX-33TX : AWX7611)


SBLR BLOCK
For VSX-35TX : Only
V+15
Y 2/5
MS
TO CODEC/DIR BLOCK
SBLP
SBLN
SBRP
SBRN
R9737 15k
R9739 15k
R9738 15k
R9740 15k
C9781 YB 1000p
C9745 YB 1000p
C9782 YB 1000p
C9746 YB 1000p
R9763 15k
R9764 15k
C9747 STBY
C9748 STBY
R9741 15k
R9742 15k
R9743 3.3k
R9745 3.3k
R9744 3.3k
R9746 3.3k
C9749 CH 220p
C9750 CH 220p
C9751 CH 220p
C9752 CH 220p
C9705 YF 0.1/25
C9706 YF 0.1/25
IC9706 (1/2) NJM4558MD
IC9706 (2/2) NJM4558MD
C9753 33/10
R9747 1.2k
C9754 33/10
R9748 1.2k
GDA1
GNDS
V−15
U−COM TERM. BLOCK
V+5D
R9761 1k
Y 2/5 MG TO DEMODULATOR BLOCK
DLCK
DRST
DSTP
TO CODEC/DIR BLOCK
TO ANALOG POST PROCESSING BLOCK
Y 2/5 MF
MF
MF Y 5/5
ATT
MUTE
ADMD
64ST
SELA
SELB
SELC
DRDOO
DRPD
CS
CLK
DATA
CDPD
ERR
64CK
64DT
CN9806
52044-2045
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳
NC
ATT
MUTE
ADMD
9164 CS
DM LCK
DM RST
DM STP
DSEL A
DSEL B
DSEL C
DIR CDTO
DIR PD
AK CS
AK CK
AK DT
CODEC PD
ERR
ABOOT
9164 CK
D 3/3 CN905

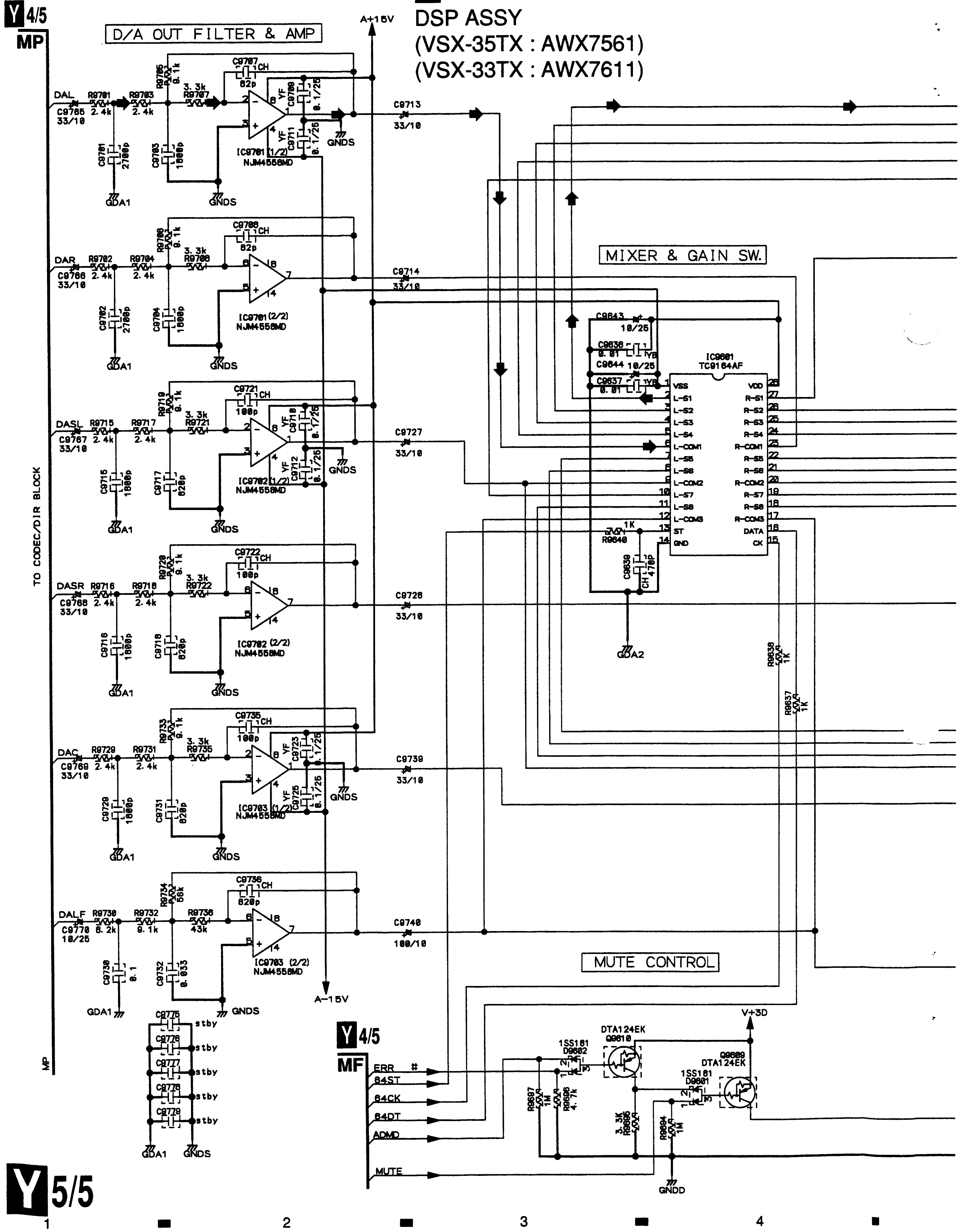

V+15
V−15
Y 2/5
MT
R9749
5.6k
C9755
1200p
YB
Q9611
2SC3326(AB)
R9751
8.2k
R9753
15k
R9755
3.3k
C9757
270p
CH
IC9707 (1/2)
NJM4558MD
C9759
YF
0.1/25
C9760
YF
0.1/25
GNDS
C9761
4.7/50
R9757
470k
R9759
100
SBLO
C9763
2200p
YB
GNDS
TO CODEC/DIR BLOCK
R9750
5.6k
C9756
1200p
YB
Q9612
2SC3326(AB)
R9752
8.2k
R9754
15k
R9756
3.3k
C9758
270p
CH
IC9707 (2/2)
NJM4558MD
C9762
4.7/50
R9758
470k
R9760
100
SBRO
C9764
2200p
YB
GNDS
MT
MUTE
MZ Y 5/5
TO ANALOG POST PROCESSING BLOCK

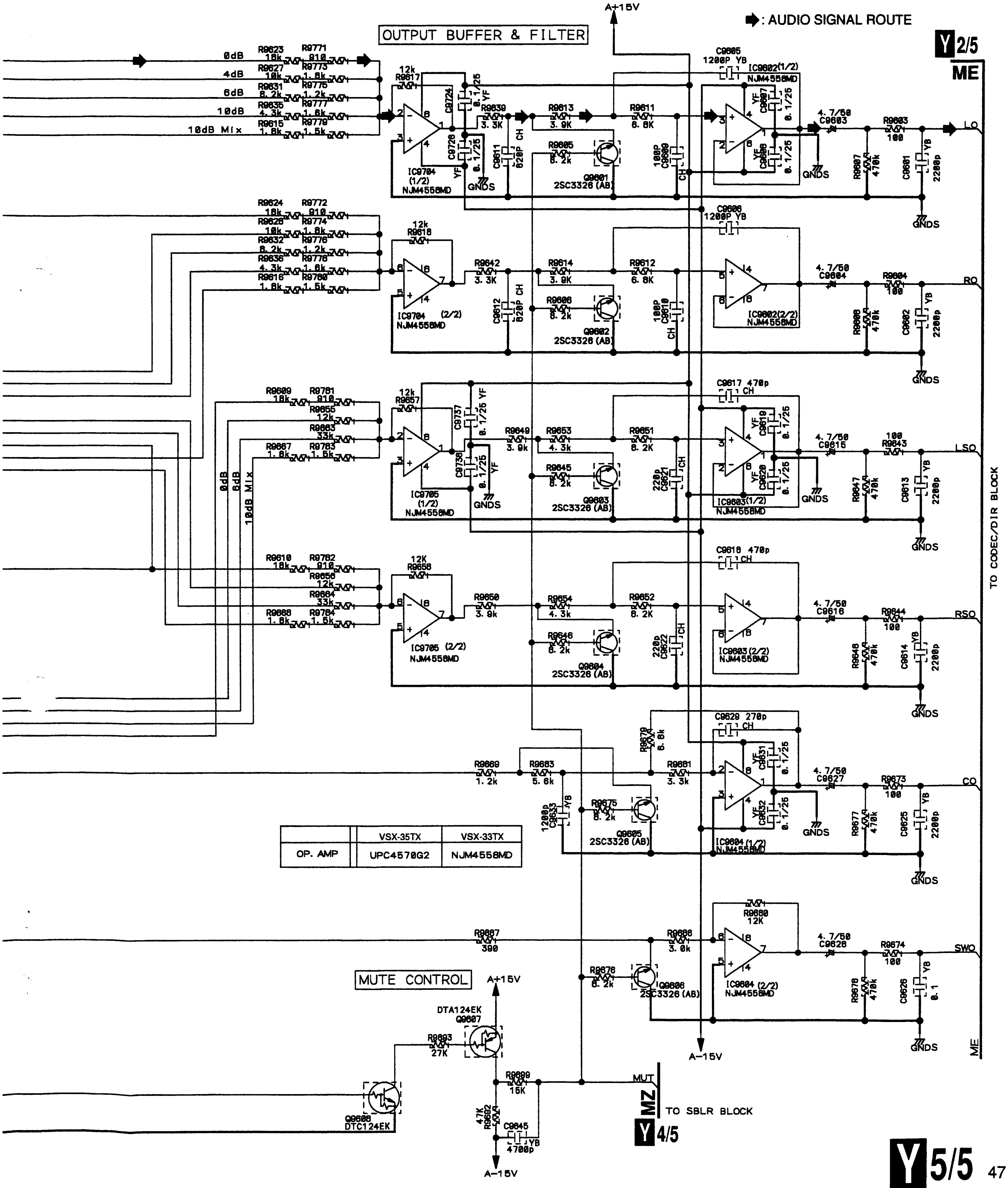
	VSX-35TX	VSX-33TX
DEMODULATOR	×	×
MPEG BC	×	×
MPEG AAC	×	×
Dolby EX	○	×
OPT OUT	2	1
OPT IN (FRONT)	○	×


Y 3/5 MK
MK
TO DSP BLOCK
ABOOT
FS96
CA17
CA15
CA16
CREQ
CSDO
CCS
CCK
CDT
CRST
AIRT
ADRT
AREQ
ACK
ASO
ASI
ARDY
ADRY
R9588
330
R9589
330
①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯⑰⑱⑲⑳
CN9805
52044-2045
9164 DT
FS96
DSP1 A17
DSP1 A15
DSP1 A16
DSP1 INTREQ
DSP1 SCDO
DSP1 CS
DSP1 CK
DSP1 DT
DSP1 RST
DSP2 IRST
DSP2 DRST
DSP2 RQ
DSP2 CK
DSP2 SO
DSP2 SI
DSP2 RDY
DSP2 DRDY
NC
D 3/3 CN908

3.23 DSP ASSY (5/5)

Y 5/5
DSP ASSY
(VSX-35TX : AWX7561)
(VSX-33TX : AWX7611)


Y 4/5
MP
D/A OUT FILTER & AMP
A+15V
A-15V
DAL
DAR
DASL
DASR
DAC
DALF
TO CODEC/DIR BLOCK
C9765 33/10
C9766 33/10
C9767 33/10
C9768 33/10
C9769 33/10
C9770 10/25
R9701 2.4k
R9703 2.4k
R9705 0.1k
R9707 3.3k
C9707 82p CH
C9701 2700p
C9703 1000p
C9709 0.1/25
C9711 0.1/25
IC9701 (1/2) NJM4558MD
IC9701 (2/2) NJM4558MD
IC9702 (1/2) NJM4558MD
IC9702 (2/2) NJM4558MD
IC9703 (1/2) NJM4558MD
IC9703 (2/2) NJM4558MD
R9702 2.4k
R9704 2.4k
R9706 0.1k
R9708 3.3k
C9708 82p CH
C9702 2700p
C9704 1000p
R9715 2.4k
R9717 2.4k
R9719 0.1k
R9721 3.3k
C9721 100p CH
C9715 1000p
C9717 820p
C9710 0.1/25
C9712 0.1/25
R9716 2.4k
R9718 2.4k
R9720 0.1k
R9722 3.3k
C9722 100p CH
C9716 1000p
C9718 820p
R9729 2.4k
R9731 2.4k
R9733 0.1k
R9735 3.3k
C9735 100p CH
C9729 1000p
C9731 820p
C9723 0.1/25
C9725 0.1/25
R9730 8.2k
R9732 9.1k
R9734 56k
R9736 43k
C9736 820p CH
C9730 0.1
C9732 0.033
C9713 33/10
C9714 33/10
C9727 33/10
C9728 33/10
C9739 33/10
C9740 100/10
GDA1
GNDS
YF
C9775 stby
C9776 stby
C9777 stby
C9778 stby
C9779 stby
MIXER & GAIN SW.
IC9601 TC9164AF
C9643 10/25
C9636 0.01
C9644 10/25
C9637 0.01
YB
R9640 1K
C9639 470P CH
GDA2
R9638 1K
R9637 1K
VSS
L-S1
L-S2
L-S3
L-S4
L-COM1
L-S5
L-S6
L-COM2
L-S7
L-S8
L-COM3
ST
GND
VDD
R-S1
R-S2
R-S3
R-S4
R-COM1
R-S5
R-S6
R-COM2
R-S7
R-S8
R-COM3
DATA
CK
MUTE CONTROL
V+3D
DTA124EK Q9610
1SS181 D9602
Q9609 DTA124EK
1SS181 D9601
R9697 1M
R9696 4.7k
R9695 3.3K
R9694 1M
GNDD
Y 4/5
MF
ERR
84ST
84CK
84DT
ADMD
MUTE

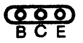
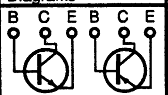
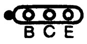
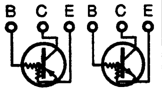
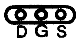
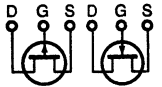
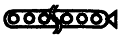
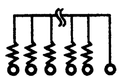
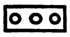
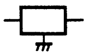

A+15V
OUTPUT BUFFER & FILTER
➡: AUDIO SIGNAL ROUTE
Y 2/5
ME
0dB
4dB
6dB
10dB
10dB Mix
R9623 18k
R9771 910
R9627 10k
R9773 1.8k
R9631 8.2k
R9775 1.2k
R9635 4.3k
R9777 1.8k
R9615 1.8k
R9779 1.5k
12k R9617
C9724 0.1/25 YF
C9728 0.1/25 YF
IC9704 (1/2) NJM4558MD
GNDS
R9639 3.3K
C9611 620P CH
R9613 3.9K
R9605 8.2k
Q9601 2SC3326 (AB)
R9611 6.8K
100P C9609 CH
C9605 1200P YB
IC9602(1/2) NJM4558MD
C9607 0.1/25 YF
C9608 0.1/25 YF
4.7/50 C9603
R9603 100
R9607 470k
C9601 2200p YB
LO
C9606 1200P YB
R9624 18k
R9772 910
R9628 10k
R9774 1.8k
R9632 8.2k
R9776 1.2k
R9636 4.3k
R9778 1.8k
R9616 1.8k
R9780 1.5k
12k R9618
IC9704 (2/2) NJM4558MD
R9642 3.3K
C9612 620P CH
R9614 3.9K
R9606 8.2k
Q9602 2SC3326 (AB)
R9612 6.8K
100P C9610 CH
IC9602(2/2) NJM4558MD
4.7/50 C9604
R9604 100
R9608 470k
C9602 2200p YB
RO
R9609 18k
R9781 910
R9655 12k
R9663 33k
R9667 1.8k
R9783 1.5k
12k R9657
C9737 0.1/25 YF
C9738 0.1/25 YF
IC9705 (1/2) NJM4558MD
R9649 3.9k
R9653 4.3k
R9645 8.2k
Q9603 2SC3326 (AB)
R9651 8.2K
220p C9621 CH
C9617 470p CH
IC9603(1/2) NJM4558MD
C9619 0.1/25 YF
C9620 0.1/25 YF
4.7/50 C9615
100 R9643
R9647 470k
C9613 2200p YB
LSO
0dB
6dB
10dB Mix
R9610 18k
R9782 910
R9656 12k
R9664 33k
R9668 1.8k
R9784 1.5k
12K R9658
IC9705 (2/2) NJM4558MD
R9650 3.9k
R9654 4.3k
R9646 8.2k
Q9604 2SC3326 (AB)
R9652 8.2K
220p C9622 CH
C9618 470p CH
IC9603(2/2) NJM4558MD
4.7/50 C9616
R9644 100
R9648 470k
C9614 2200p YB
RSO
TO CODEC/DIR BLOCK
C9629 270p CH
R9679 6.8k
R9669 1.2k
R9683 5.6k
R9681 3.3k
1200p C9633 YB
R9675 8.2k
Q9605 2SC3326 (AB)
C9631 0.1/25 YF
C9632 0.1/25 YF
IC9604(1/2) NJM4558MD
4.7/50 C9627
R9673 100
R9677 470k
C9625 2200p YB
CO
R9680 12K
R9687 390
R9686 3.0k
IC9604 (2/2) NJM4558MD
R9676 8.2k
Q9606 2SC3326 (AB)
4.7/50 C9628
R9674 100
R9678 470k
C9626 0.1 YB
SWO
ME
A-15V
MUTE CONTROL
A+15V
DTA124EK Q9607
R9693 27K
Q9608 DTC124EK
R9699 15K
47K R9692
C9645 4700p YB
A-15V
MUT
MZ
TO SBLR BLOCK
Y 4/5

	VSX-35TX	VSX-33TX
OP. AMP	UPC4570G2	NJM4558MD

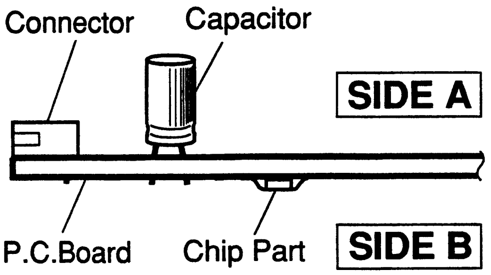
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

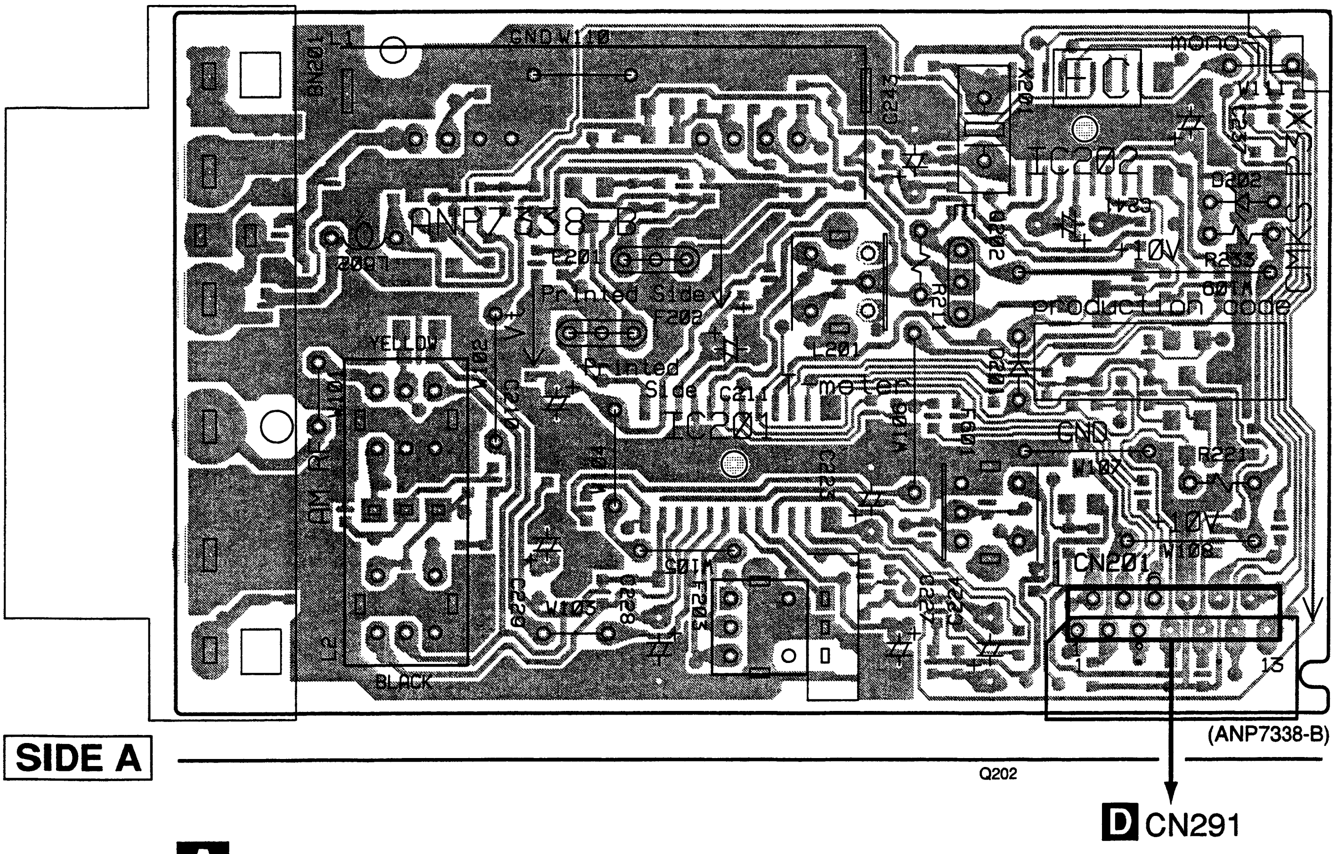
Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.


Connector
Capacitor
SIDE A
P.C.Board
Chip Part
SIDE B

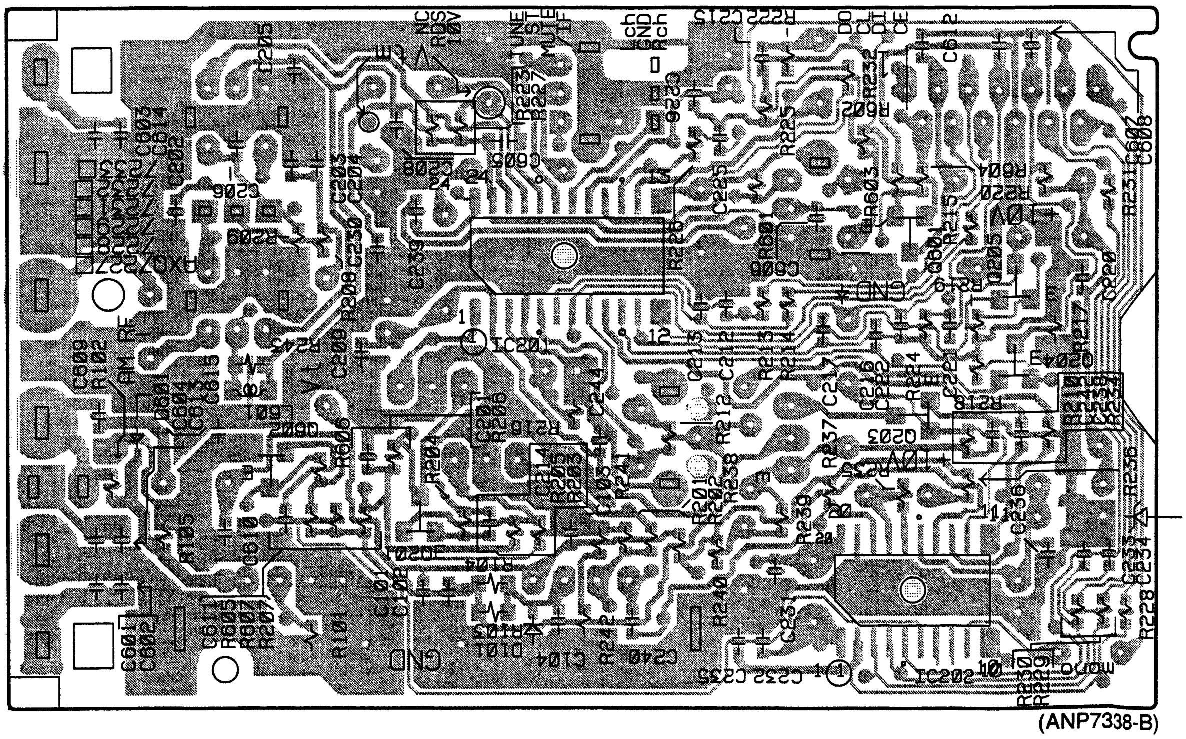
4.1 FM/AM TUNER UNIT

A FM/AM TUNER UNIT


BN201
GND W110
ANP7338-B
IC202
IC201
Printed Side
YELLOW
BLACK
AM RF
mono
D202
10V
production code
GND
CN201
W107
W108
R221
1
13
(ANP7338-B)
Q202
D CN291

SIDE A

A FM/AM TUNER UNIT

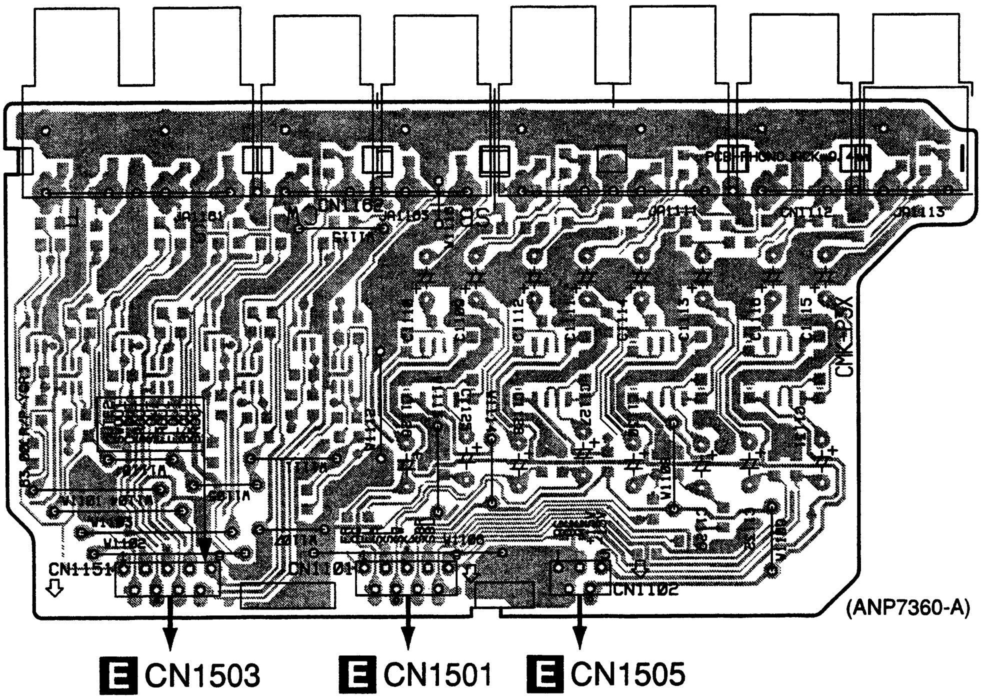

NC
RDS
10V
TUNE
ST
MUTE
Lch
GND
Rch
DO
CL
DI
CE
IC201
IC202
AM RF
GND
mono
(ANP7338-B)
Q203
Q601
IC202
Q204
Q205
Q602
IC201

SIDE B

A

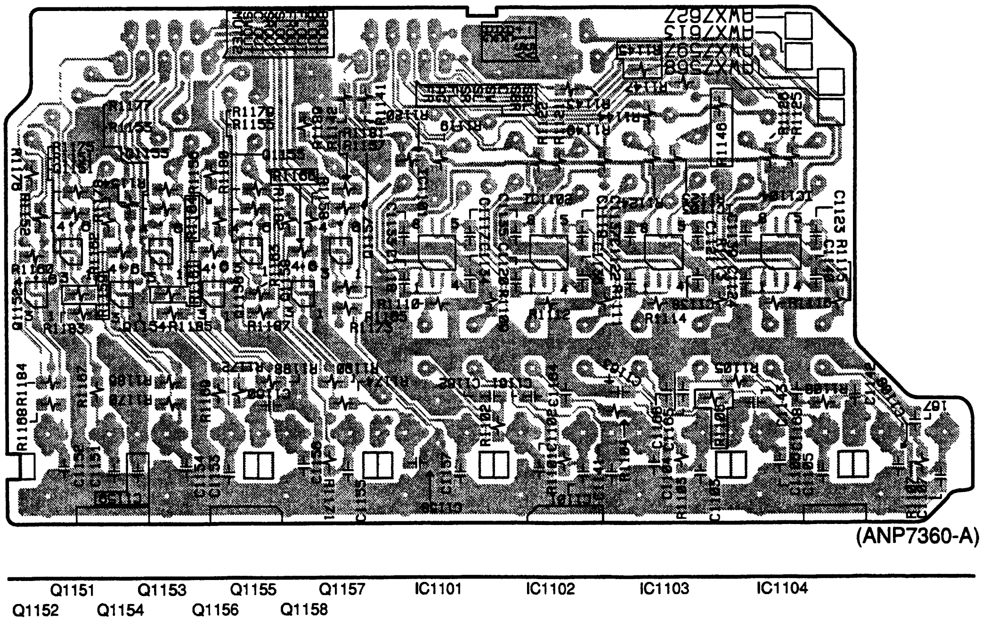
4.2 EX I/O ASSY (5.1CH I/O ASSY)

B EX I/O ASSY (5.1CH I/O ASSY)


CN1151
CN1101
CN1102
(ANP7360-A)
E CN1503
E CN1501
E CN1505

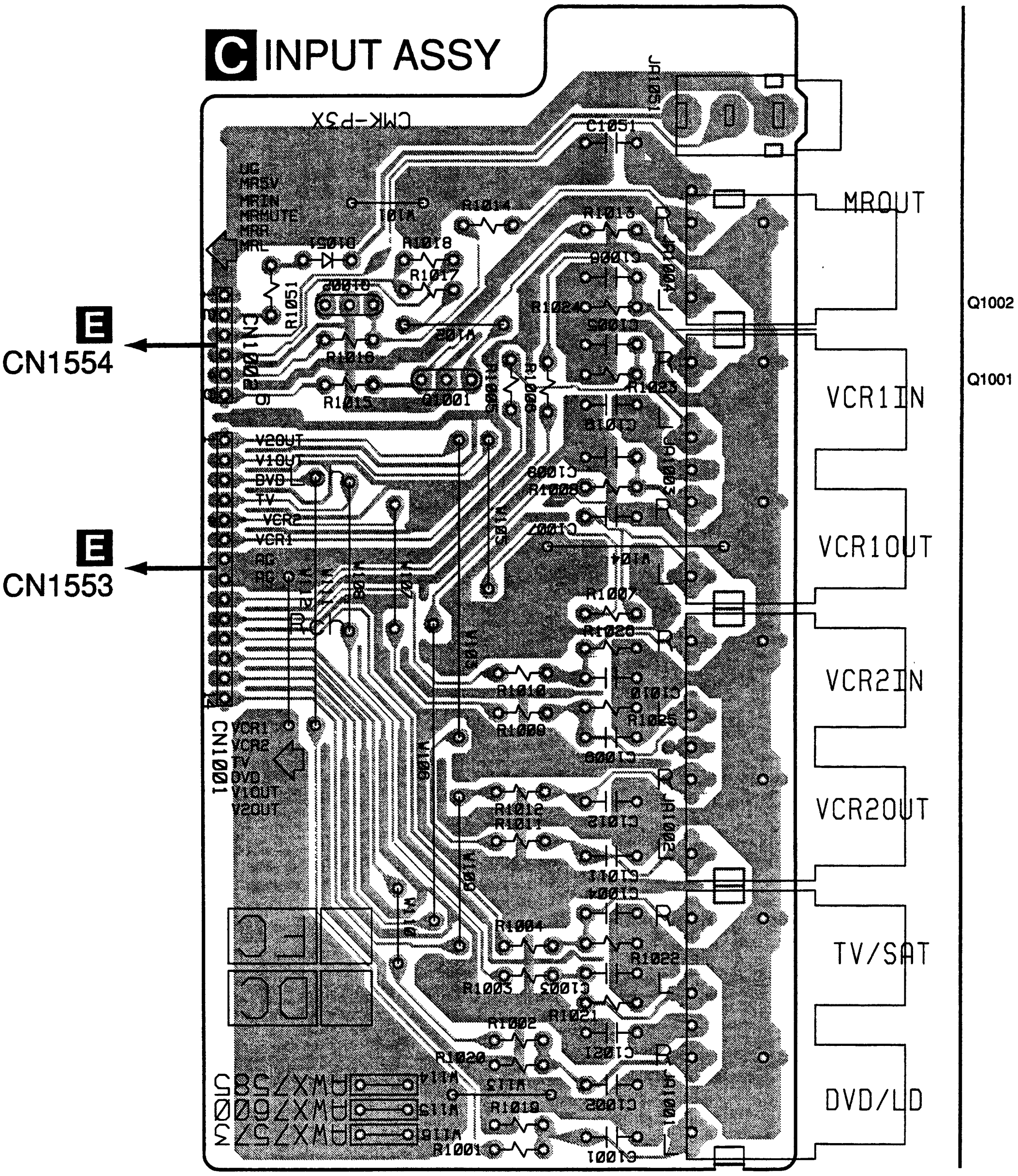
SIDE A

B EX I/O ASSY (5.1CH I/O ASSY)


(ANP7360-A)
Q1151
Q1153
Q1155
Q1157
IC1101
IC1102
IC1103
IC1104
Q1152
Q1154
Q1156
Q1158

SIDE B

4.3 INPUT ASSY

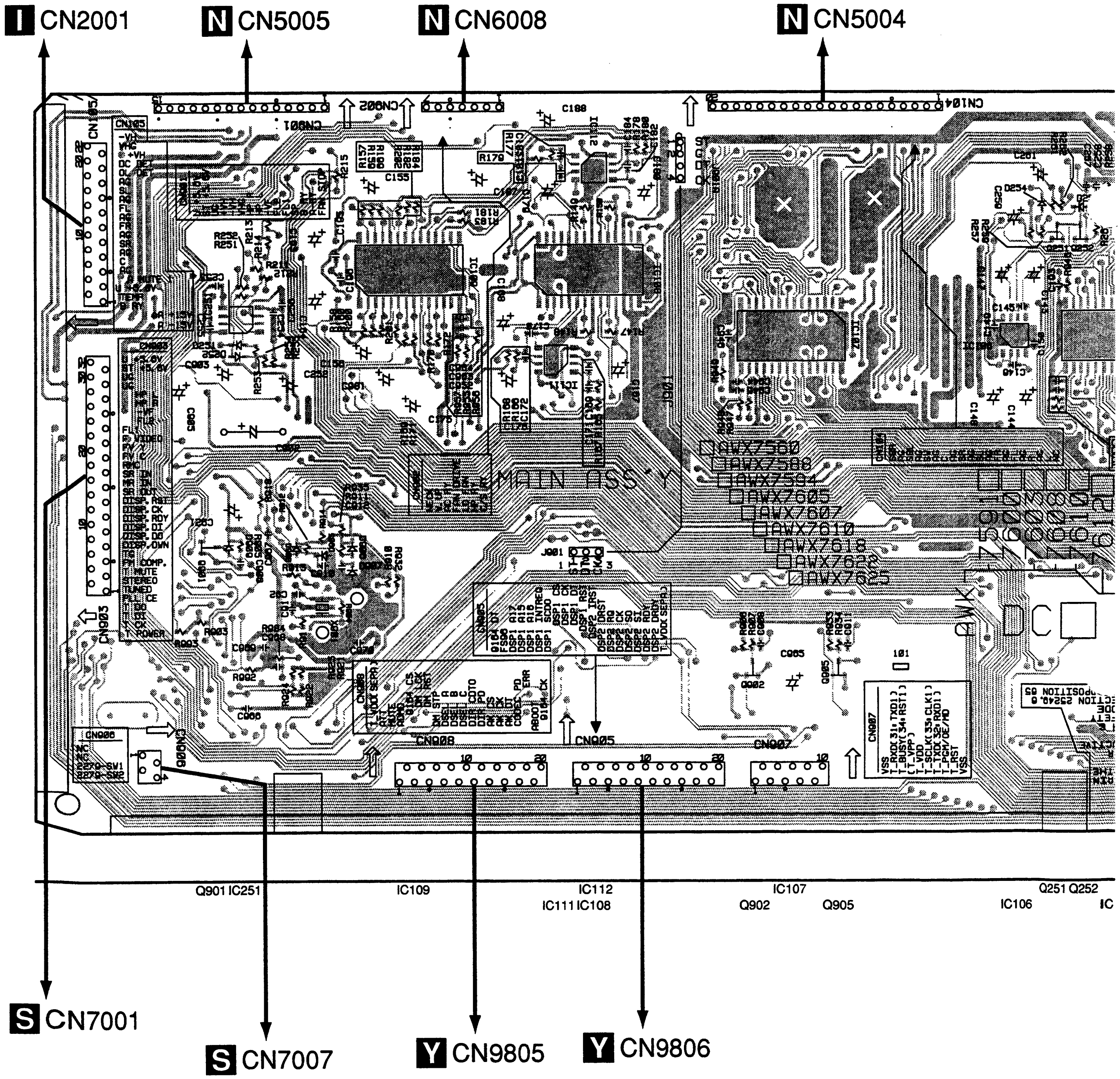

C INPUT ASSY
CMK-P3X
E
CN1554
E
CN1553
Q1002
Q1001
JA1051
C1051
MROUT
VCR1IN
VCR1OUT
VCR2IN
VCR2OUT
TV/SAT
DVD/LD
CN1001
CN1002
VCR1
VCR2
TV
DVD
V1OUT
V2OUT
Rch
R1001
R1002
R1003
R1004
R1007
R1009
R1010
R1011
R1012
R1013
R1014
R1015
R1016
R1017
R1018
R1019
R1020
R1021
R1022
R1023
R1024
R1025
R1026
R1051
Q1001
D1051
C1001
C1002
C1003
C1004
C1005
C1006
C1007
C1008
C1009
C1010
C1011
C1012
AWX7585
AWX7600
AWX7573

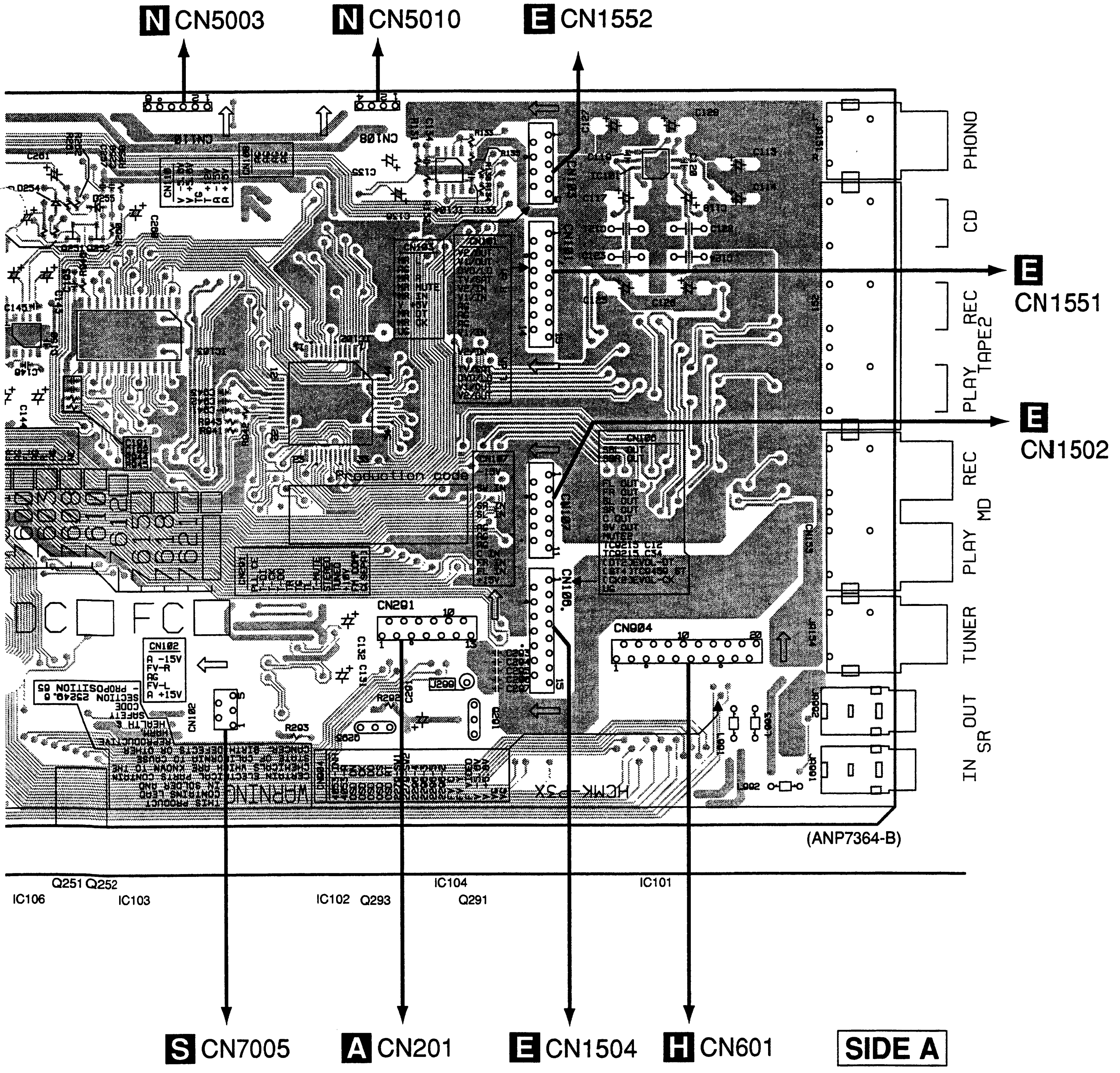
(ANP7361-A)

SIDE A

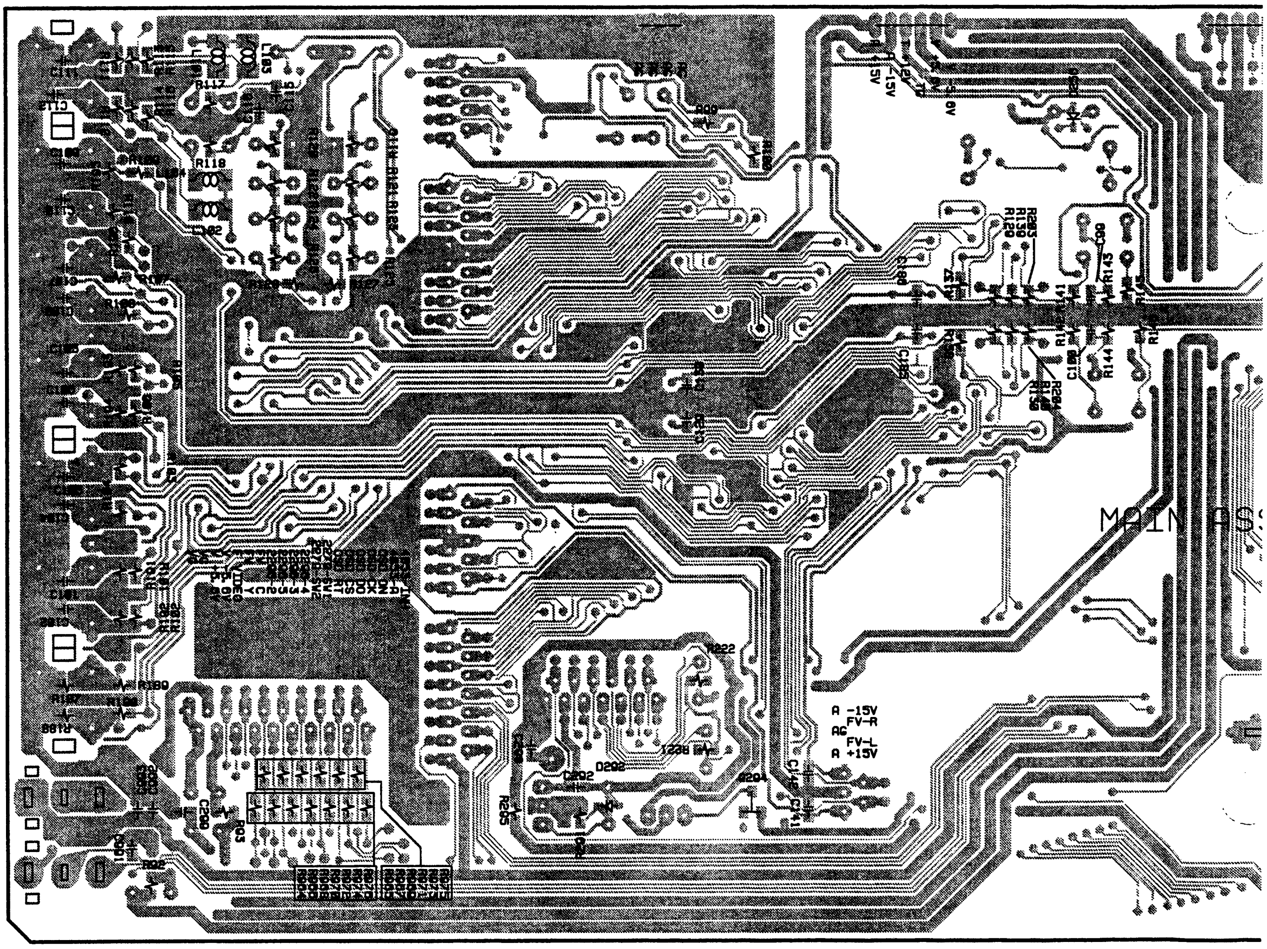
4.4 MAIN CONTROL ASSY

D MAIN CONTROL ASSY

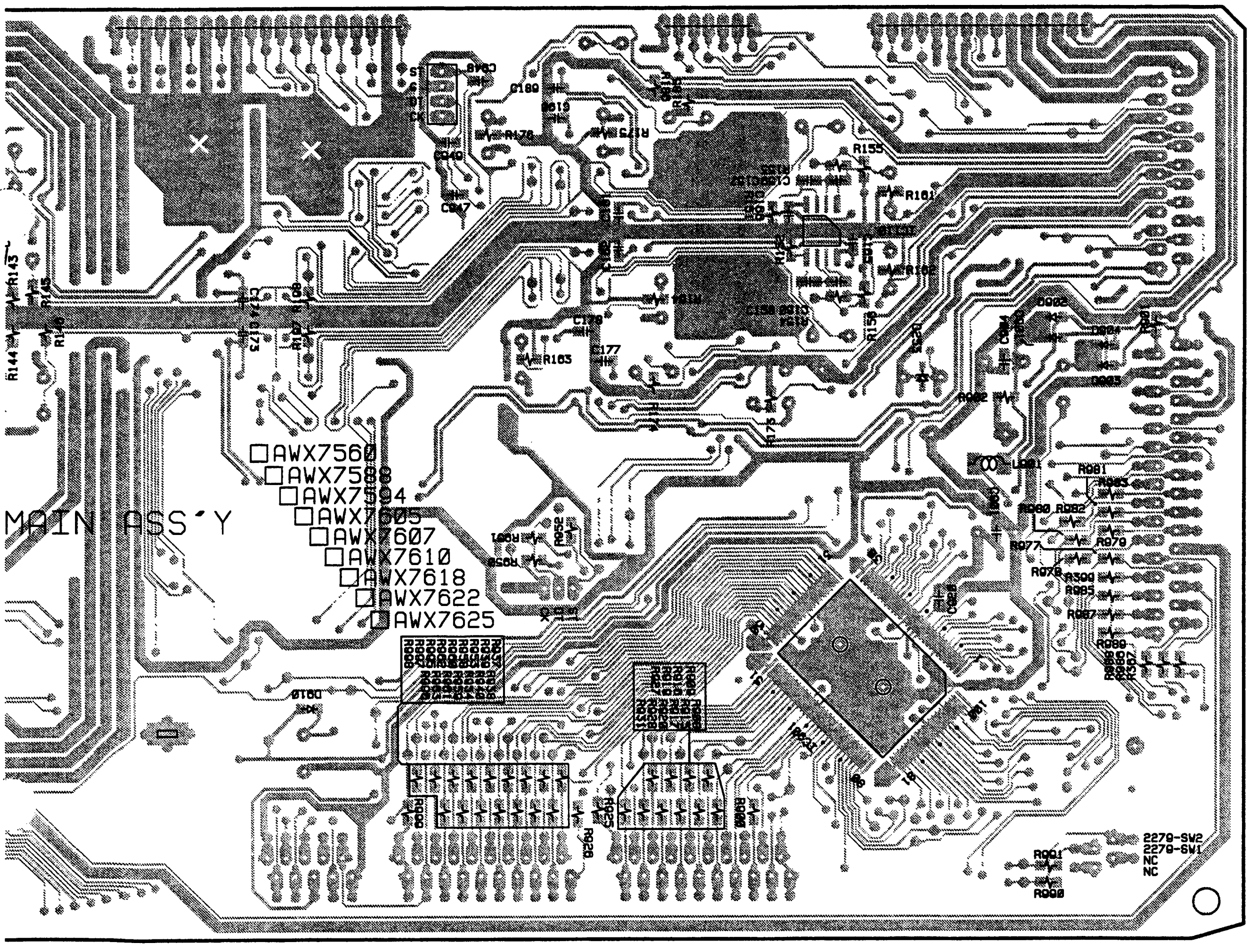

I CN2001
N CN5005
N CN6008
N CN5004
CN105
CN901
CN902
CN104
CN903
CN906
CN908
CN905
CN907
MAIN ASS'Y
AWX7560
AWX7580
AWX7594
AWX7605
AWX7607
AWX7610
AWX7618
AWX7628
AWX7625
Q901 IC251
IC109
IC112
IC111 IC108
IC107
Q902
Q905
Q251 Q252
IC106
IC
S CN7001
S CN7007
Y CN9805
Y CN9806


N CN5003
N CN5010
E CN1552
E CN1551
E CN1502
PHONO
CD
REC
PLAY
TAPE2
REC
PLAY
MD
TUNER
OUT
SR
IN
CN201
CN904
CN102
Production code
(ANP7364-B)
Q251 Q252
IC106
IC103
IC102 Q293
IC104
Q291
IC101
S CN7005
A CN201
E CN1504
H CN601
SIDE A

D MAIN CONTROL ASSY


R117
R118
L182
L183
C111
C112
R180
R187
C290
R03
R02
R222
R221
D292
C292
R205
Q294
A -15V
FV-R
AG
FV-L
A +15V
-15V
+15V
R203
R130
R129
R145
R144
R204
R150
MAIN ASS

Q294


MAIN ASS'Y
☐AWX7560
☐AWX7588
☐AWX7594
☐AWX7605
☐AWX7607
☐AWX7610
☐AWX7618
☐AWX7622
☐AWX7625
C049
C180
R176
R175
R155
R161
R162
C040
C047
R143
R145
R144
R146
C178
C177
R163
D022
D024
D023
R902
LD01
R981
R983
R980
R982
R977
R979
R978
R309
R985
R987
R989
R988
R986
R307
Q160
R920
2279-SW2
2279-SW1
NC
NC
R991
R990

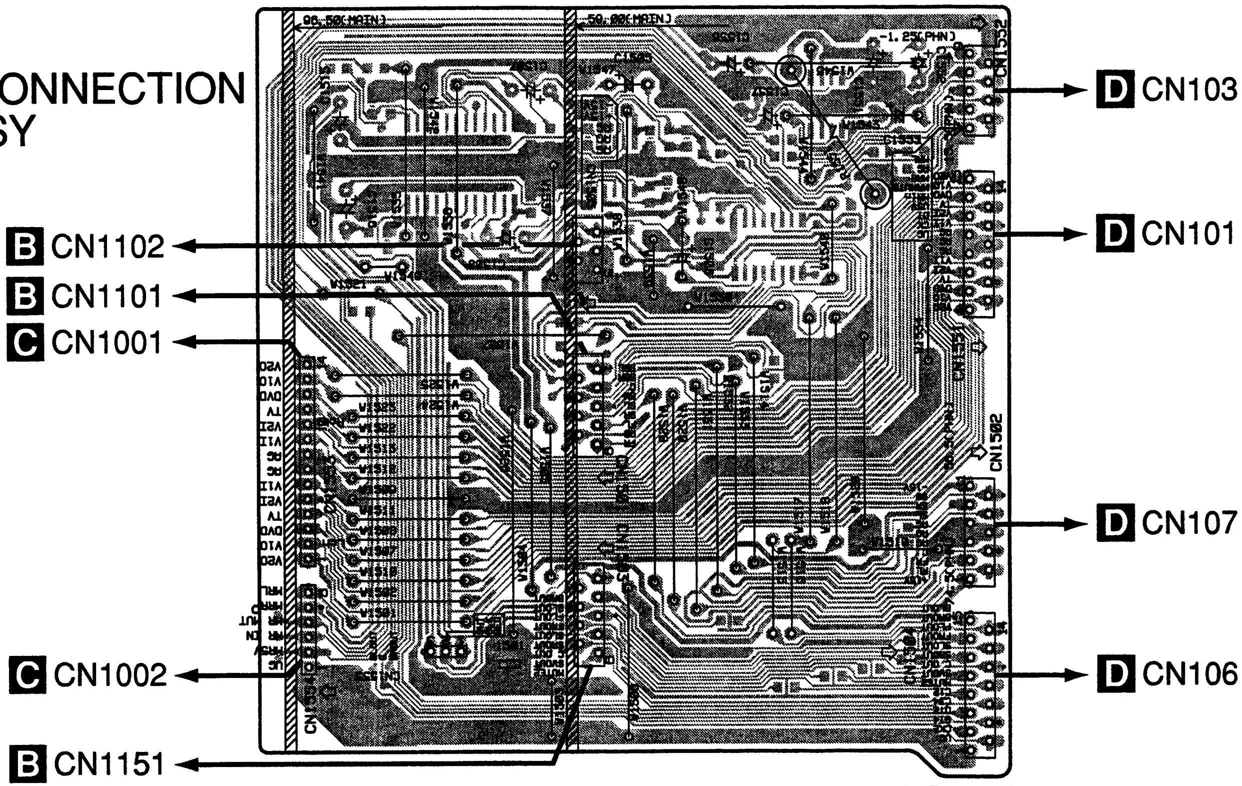
(ANP7364-B)

IC110 IC901

SIDE B

4.5 A-CONNECTION ASSY

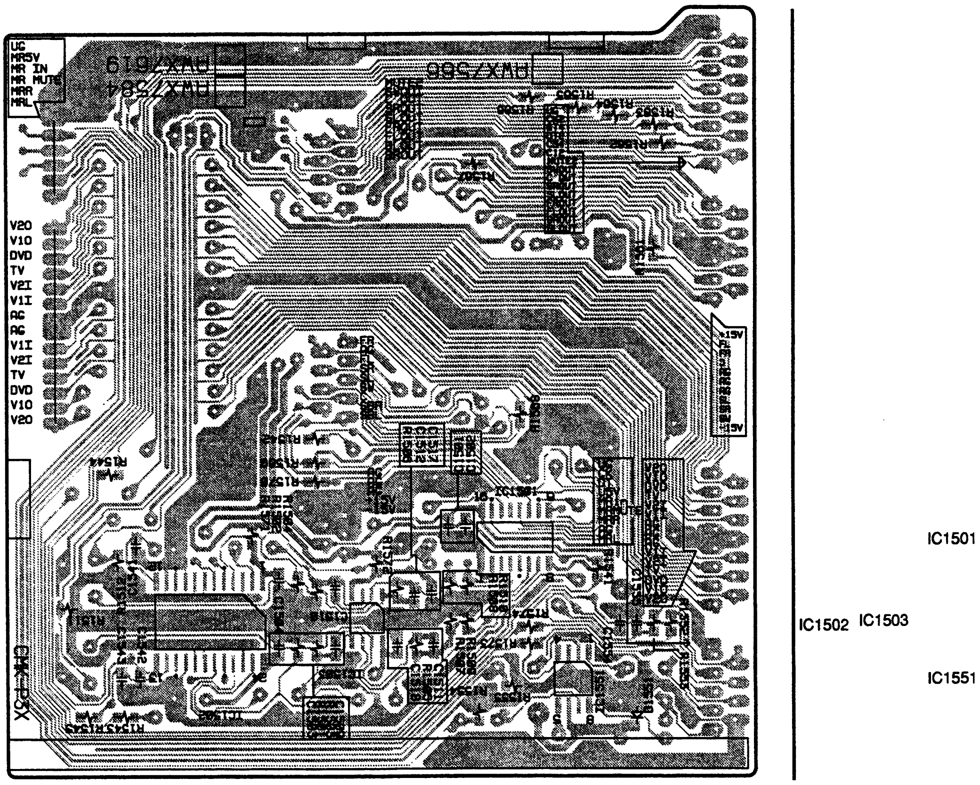
E
A-CONNECTION
ASSY


B CN1102
B CN1101
C CN1001
C CN1002
B CN1151
D CN103
D CN101
D CN107
D CN106

(ANP7360-A)

SIDE A

E
A-CONNECTION
ASSY

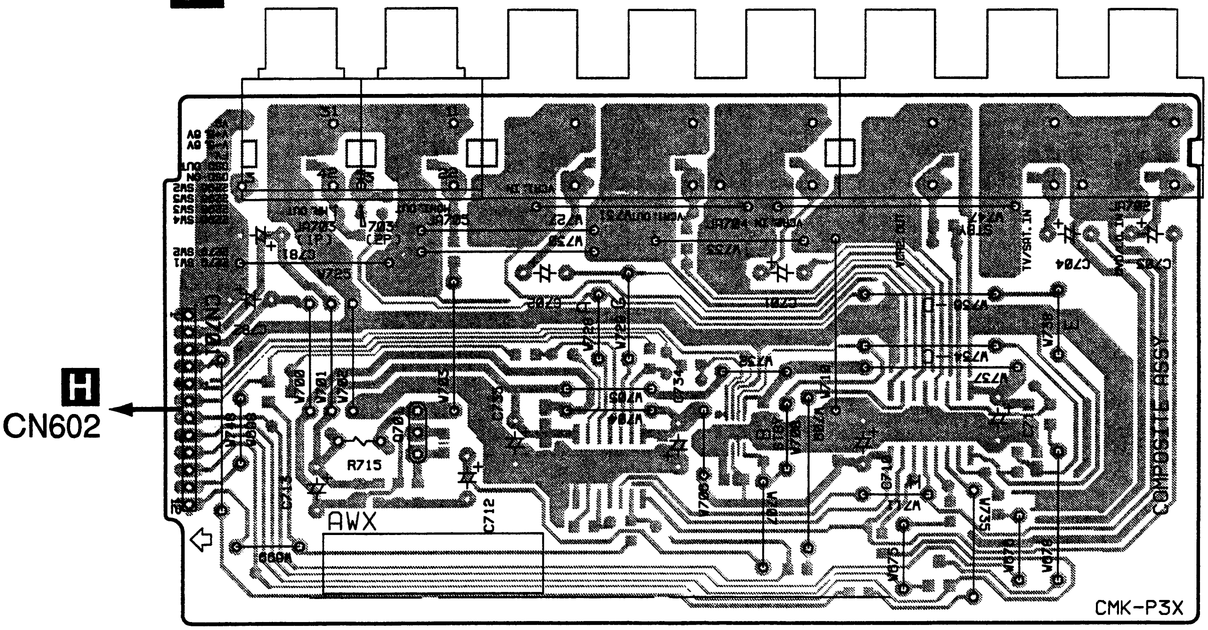

IC1501
IC1502
IC1503
IC1551
V2O
V1O
DVD
TV
V2I
V1I
RG
RG
V1I
V2I
TV
DVD
V1O
V2O

(ANP7360-A)

SIDE B

4.6 COMPOSITE ASSY

F COMPOSITE ASSY

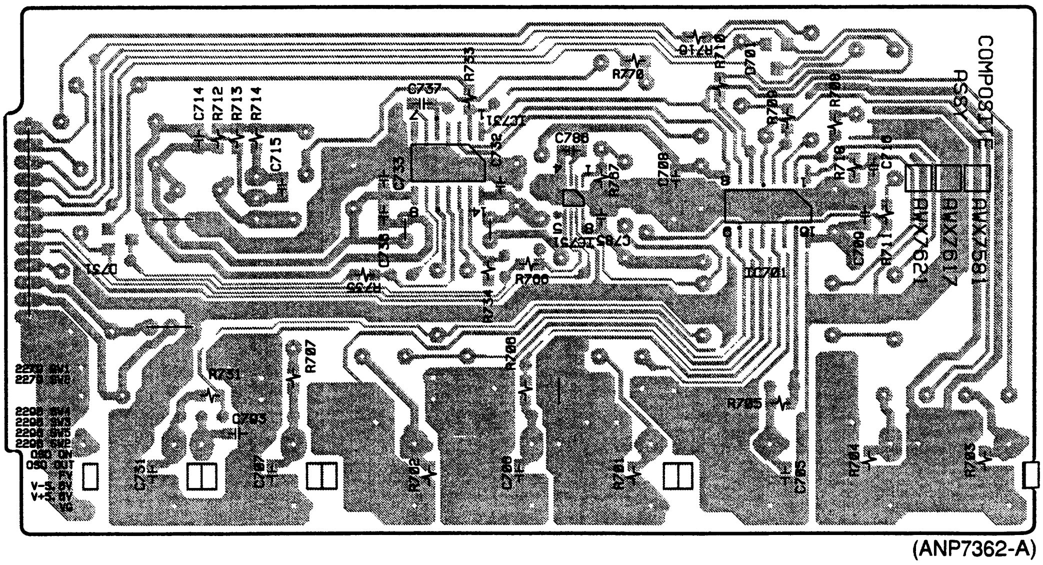

H
CN602
R715
AWX
C712
C713
C704
C703
COMPOSITE ASSY
CMK-P3X

(ANP7362-A)

Q701

SIDE A

F COMPOSITE ASSY


C714
R712
R713
R714
C715
C737
R733
C733
C732
C736
R735
R734
R706
C788
R757
C708
R770
R710
D701
R709
R718
C710
IC701
AWX7581
AWX7617
AWX7621
COMPOSITE ASSY
D731
R731
R707
C703
C731
C787
R702
C706
R701
R785
C705
R704
R705

(ANP7362-A)

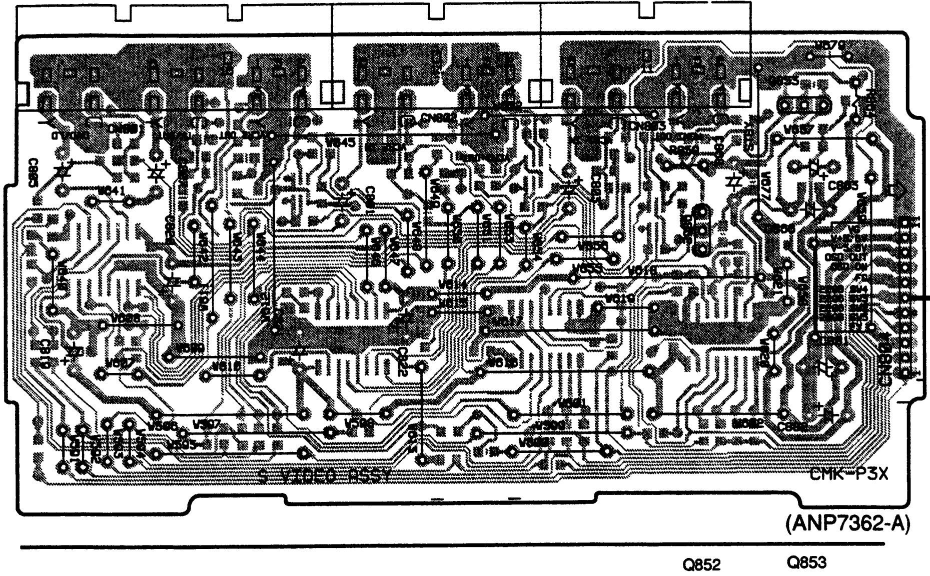
IC731 IC751 IC701

SIDE B

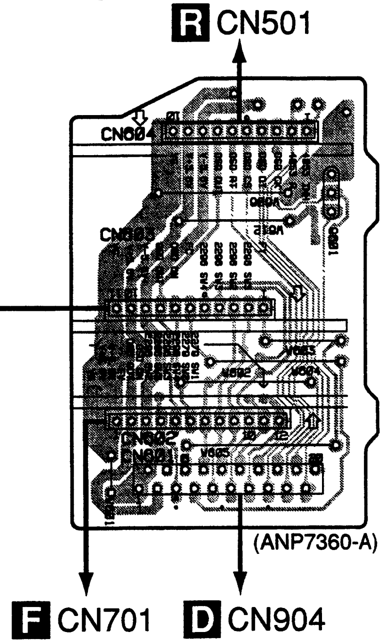
4.7 S VIDEO and V-CONNECTION ASSYS

A

G S VIDEO ASSY


S VIDEO ASSY
CMK-P3X
CN804
(ANP7362-A)
Q852
Q853

H V-CONNECTION ASSY

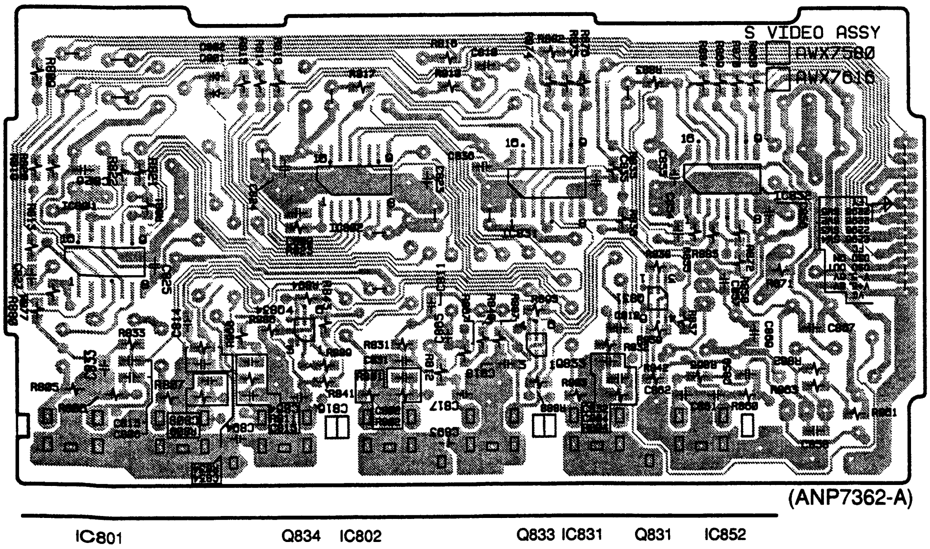

R CN501
CN604
CN603
CN602
CN601
(ANP7360-A)
F CN701
D CN904

B

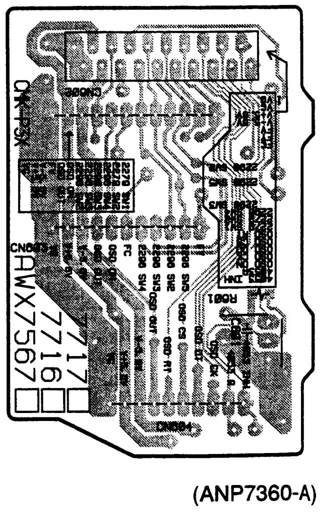
SIDE A

G S VIDEO ASSY

C


S VIDEO ASSY
AWX7580
AWX7616
(ANP7362-A)
IC801
Q834
IC802
Q833
IC831
Q831
IC852

H V-CONNECTION ASSY

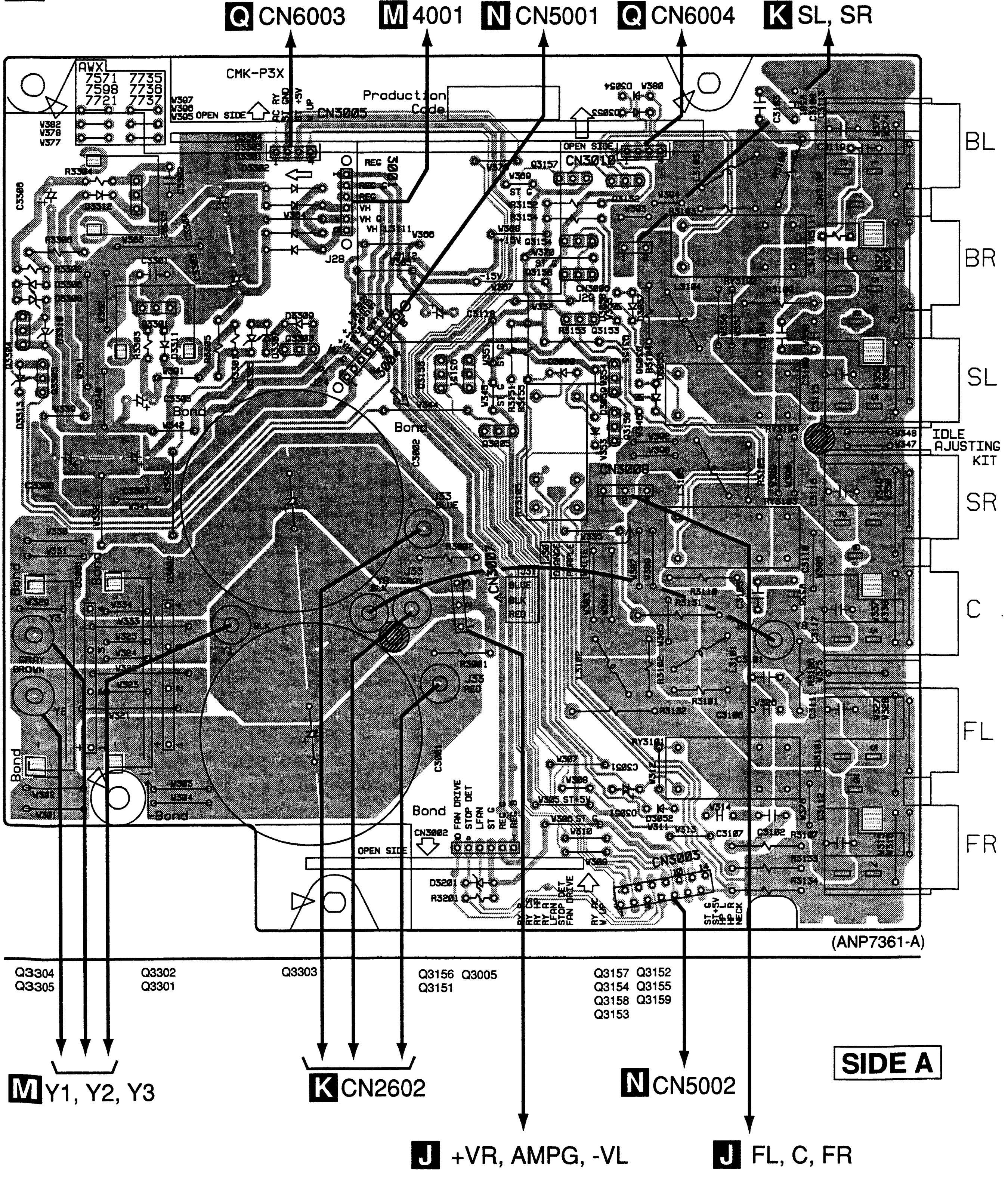

CMK-P3X
AWX7567
7716
7717
CN604
(ANP7360-A)

D

SIDE B

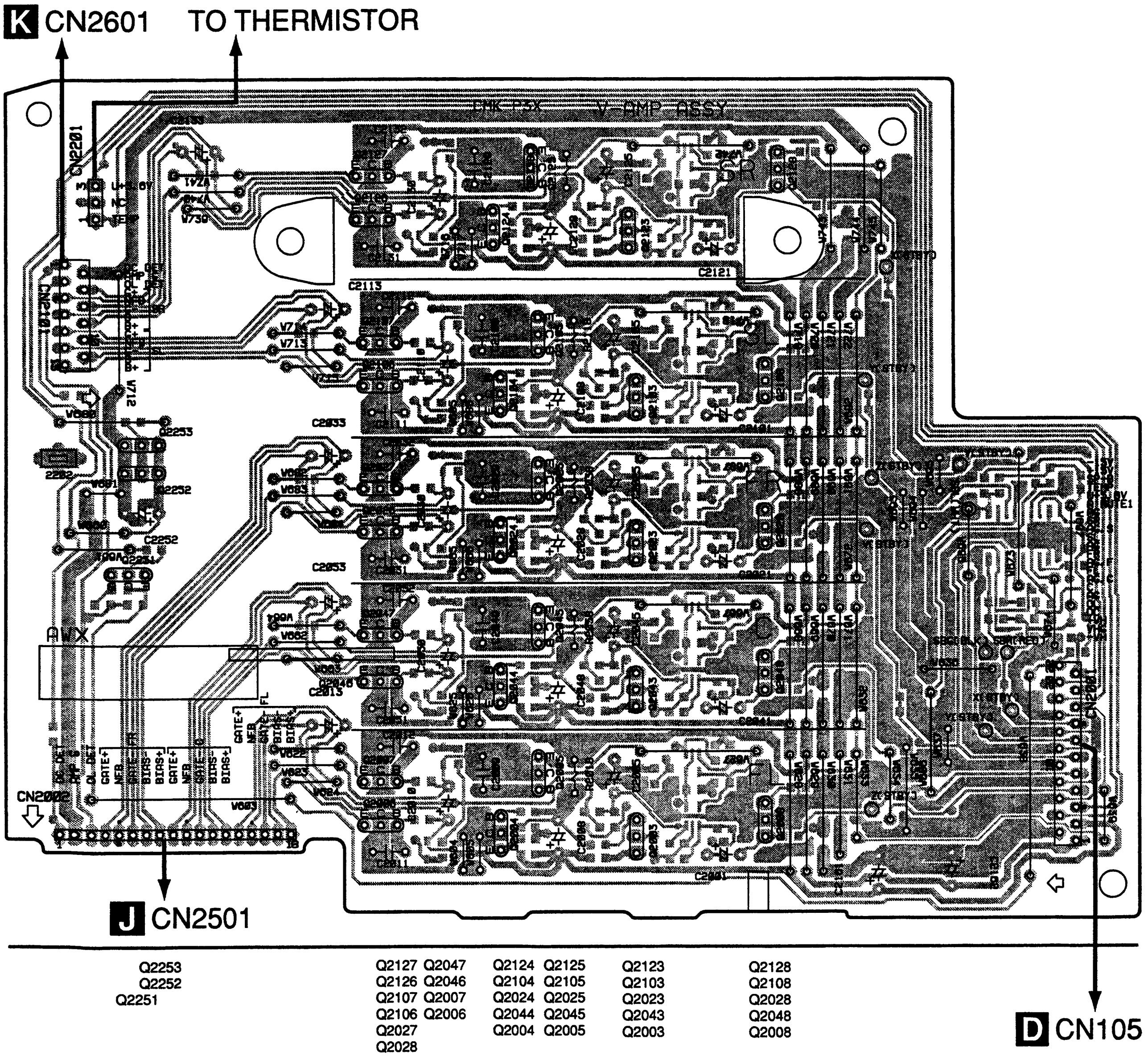
4.8 SP/PS ASSY

L SP/PS ASSY


Q CN6003
M 4001
N CN5001
Q CN6004
K SL, SR
AWX
7571 7735
7598 7736
7721 7737
CMK-P3X
Production Code
CN3005
CN3010
CN3008
CN3007
CN3002
CN3003
OPEN SIDE
Bond
BL
BR
SL
IDLE
AJUSTING
KIT
SR
C
FL
FR
(ANP7361-A)
Q3304
Q3305
Q3302
Q3301
Q3303
Q3156 Q3005
Q3151
Q3157 Q3152
Q3154 Q3155
Q3158 Q3159
Q3153
SIDE A
M Y1, Y2, Y3
K CN2602
N CN5002
J +VR, AMPG, -VL
J FL, C, FR

4.9 V-AMP ASSY

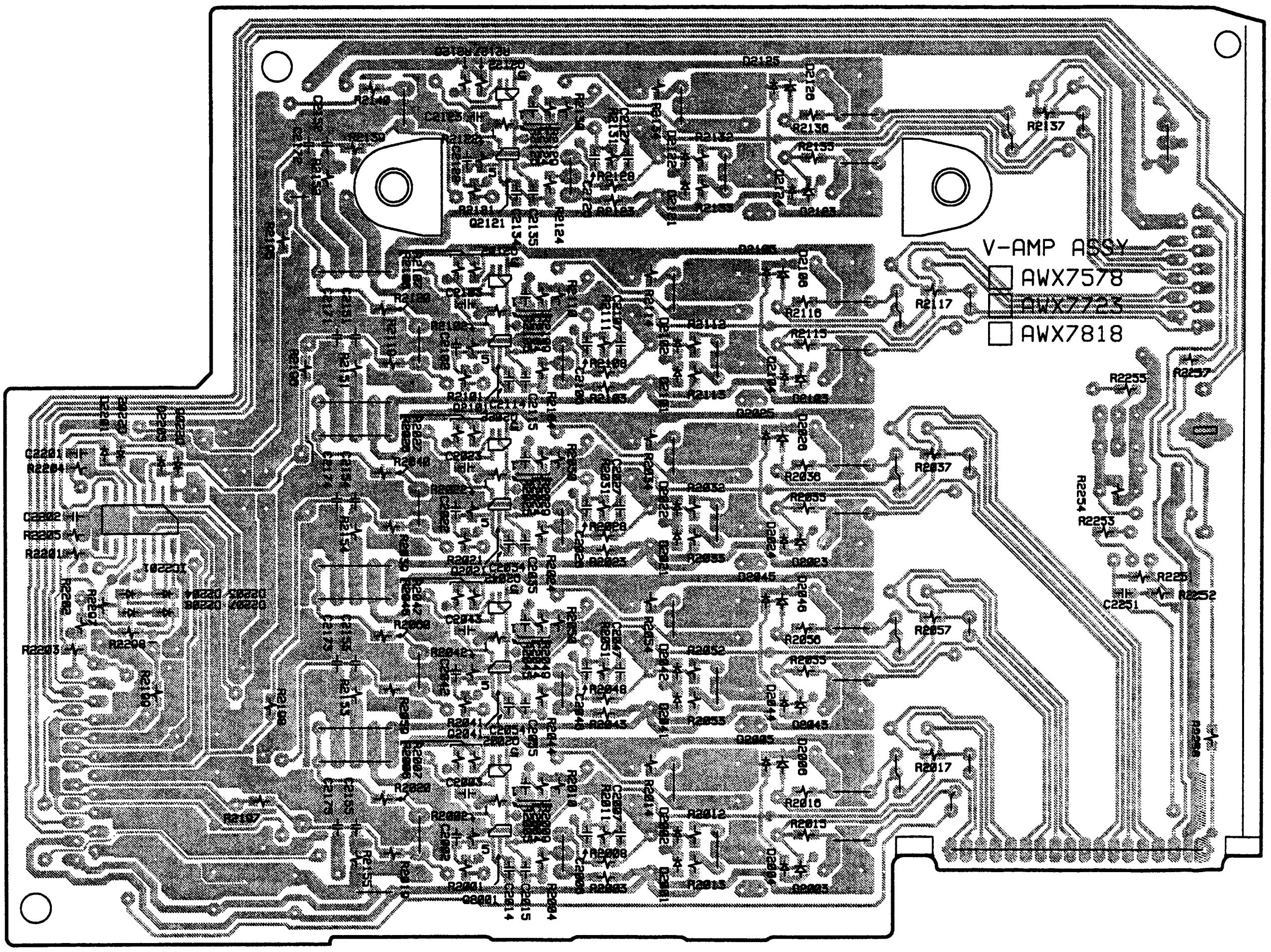
I V-AMP ASSY


K CN2601
TO THERMISTOR
CN2201
CN2101
CN2002
AWX
J CN2501
D CN105
Q2253
Q2252
Q2251
Q2127 Q2047
Q2126 Q2046
Q2107 Q2007
Q2106 Q2006
Q2027
Q2028
Q2124 Q2125
Q2104 Q2105
Q2024 Q2025
Q2044 Q2045
Q2004 Q2005
Q2123
Q2103
Q2023
Q2043
Q2003
Q2128
Q2108
Q2028
Q2048
Q2008

(ANP7362-A)

SIDE A

I V-AMP ASSY


V-AMP ASSY
☐ AWX7578
☐ AWX7723
☐ AWX7818

IC2201

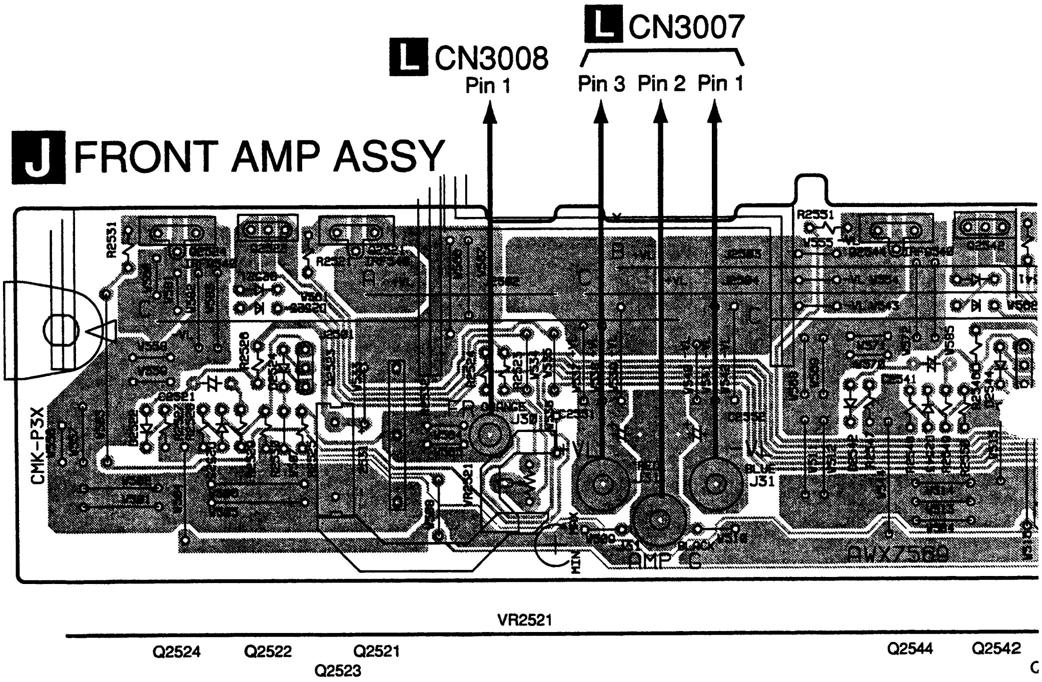
Q2122 Q2042
Q2121 Q2041
Q2101 Q2002
Q2022 Q2001
Q2021

(ANP7362-A)

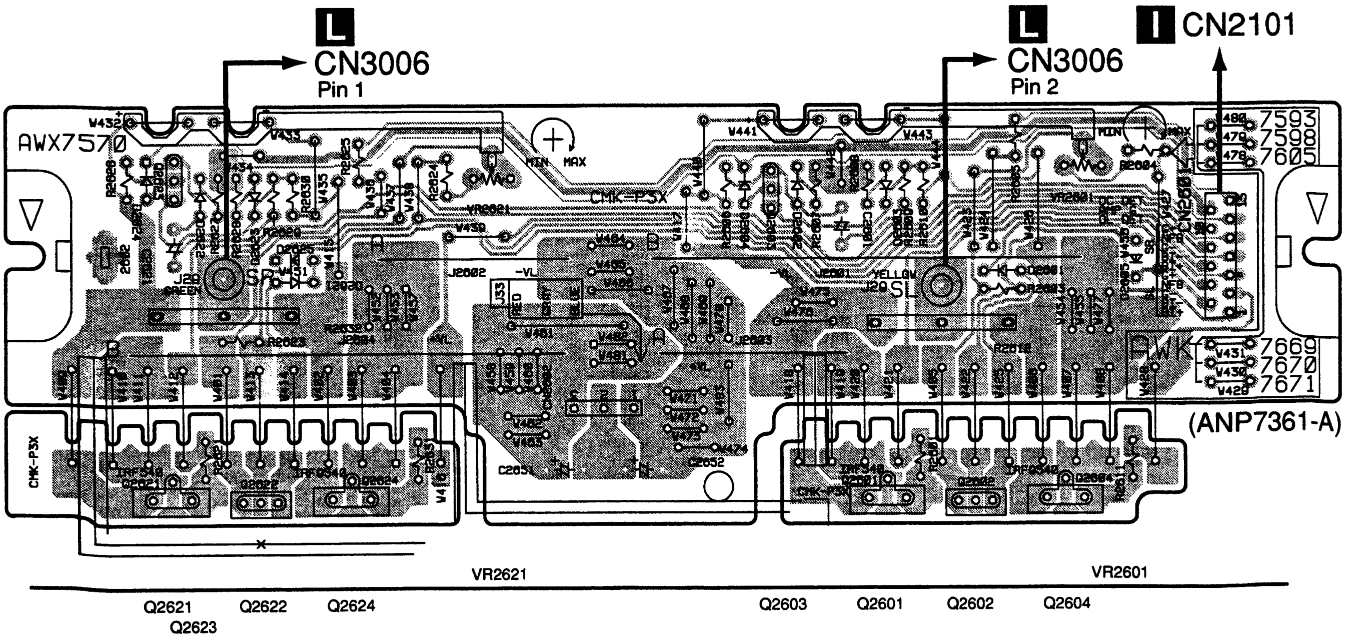
SIDE B

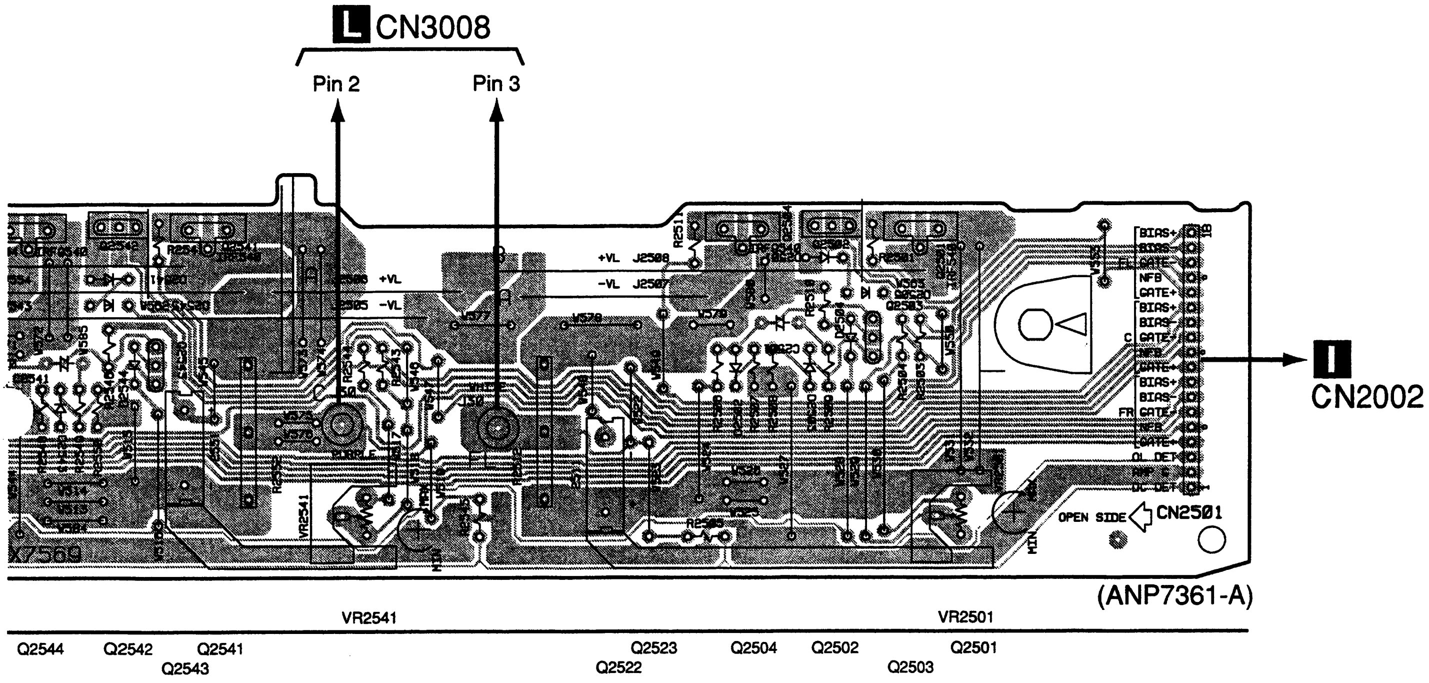
4.10 FRONT AMP and REAR AMP ASSYS

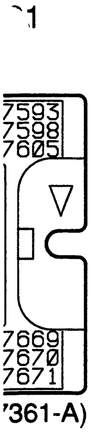
J FRONT AMP ASSY


L CN3008
Pin 1
L CN3007
Pin 3
Pin 2
Pin 1
CMK-P3X
R2531
AWX7569
AMP C
ORANGE
J32
RED
J31
BLUE
BLACK
MIN
VR2521
Q2524
Q2522
Q2521
Q2523
Q2544
Q2542

K REAR AMP ASSY

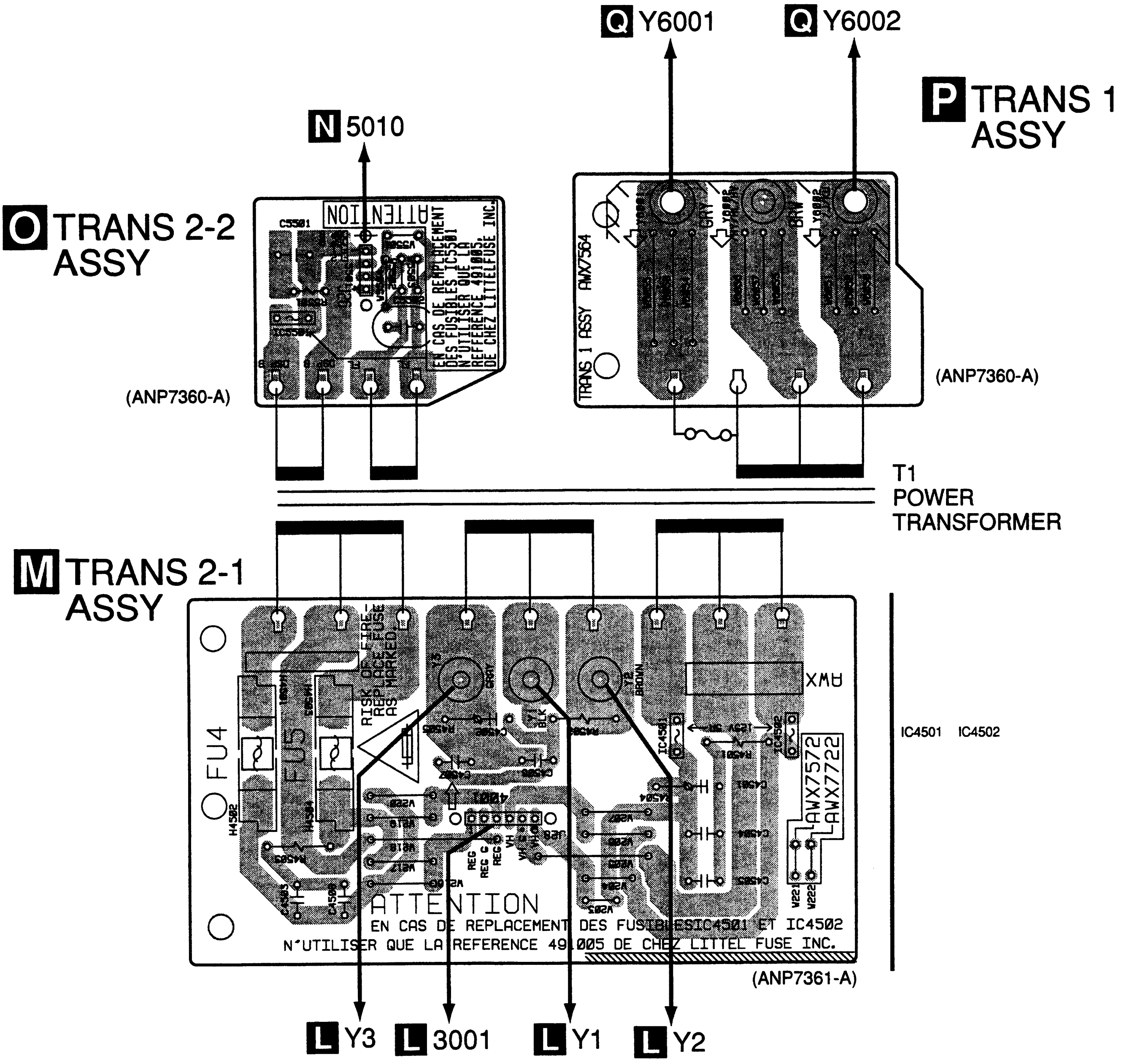

L CN3006
Pin 1
L CN3006
Pin 2
I CN2101
AWX7570
CMK-P3X
MIN
MAX
J28
GREEN
SR
J29
YELLOW
SL
J33
RED
BLUE
J2602
J2601
J2603
J2604
VR2621
VR2601
7593
7598
7605
7669
7670
7671
AWK
(ANP7361-A)
C2651
C2652
Q2621
Q2622
Q2624
Q2623
Q2603
Q2601
Q2602
Q2604


L CN3008
Pin 2
Pin 3
I
CN2002
+VL J2506
-VL J2507
BIAS+
BIAS-
GATE-
NFB
GATE+
FL
C
FR
OL DET
AMP C
DC DET
OPEN SIDE
CN2501
(ANP7361-A)
VR2541
VR2501
Q2544
Q2542
Q2541
Q2543
Q2523
Q2522
Q2504
Q2502
Q2503
Q2501


'1
'361-A)

SIDE A

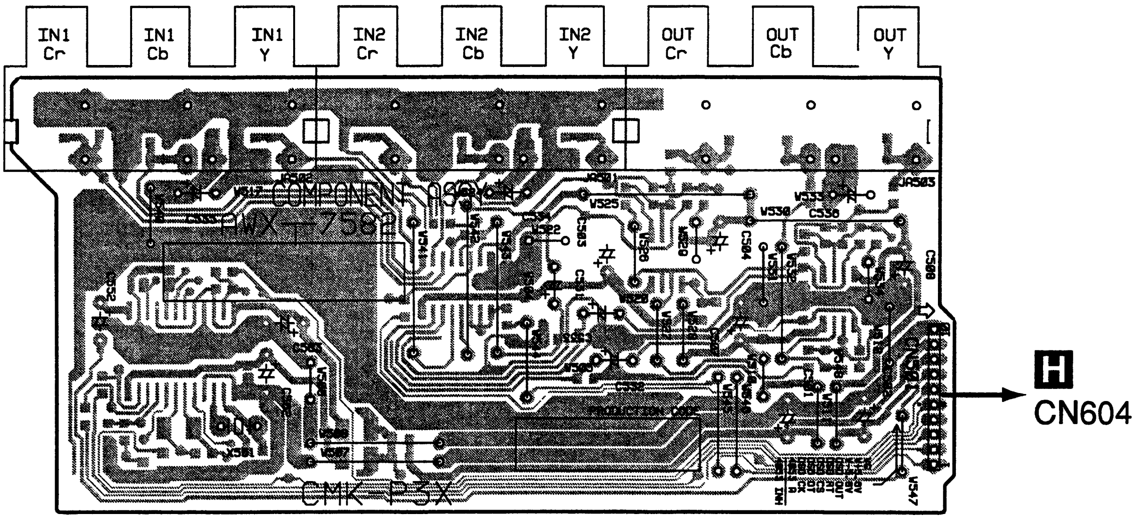
4.11 TRANS 2-1, TRANS 2-2 and TRANS 1 ASSYS


Q Y6001
Q Y6002
P TRANS 1 ASSY
N 5010
O TRANS 2-2 ASSY
ATTENTION
EN CAS DE REMPLACEMENT DES FUSIBLES IC5501 N'UTILISER QUE LA REFERENCE 491005 DE CHEZ LITTELFUSE INC.
C5501
(ANP7360-A)
TRANS 1 ASSY AWX7564
GRAY
BRN
(ANP7360-A)
T1 POWER TRANSFORMER
M TRANS 2-1 ASSY
FU4
FU5
RISK OF FIRE- REPLACE FUSE AS MARKED.
GRAY
BLK
BROWN
AWX
IC4501
IC4502
AWX7572
AWX7722
ATTENTION
EN CAS DE REPLACEMENT DES FUSIBLES IC4501 ET IC4502
N'UTILISER QUE LA REFERENCE 491005 DE CHEZ LITTEL FUSE INC.
(ANP7361-A)
IC4501 IC4502
L Y3
L 3001
L Y1
L Y2

SIDE A

4.12 COMPONENT ASSY

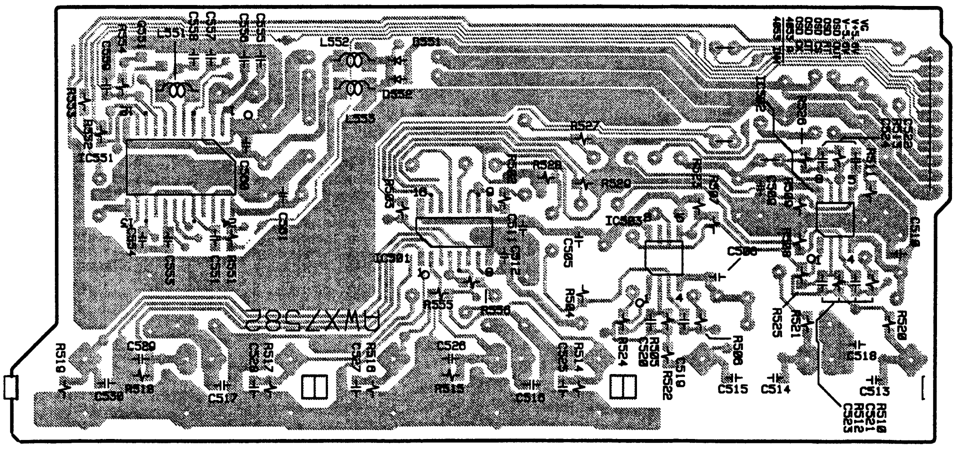
R COMPONENT ASSY


IN1 Cr
IN1 Cb
IN1 Y
IN2 Cr
IN2 Cb
IN2 Y
OUT Cr
OUT Cb
OUT Y
COMPONENT ASSY
AWX-7582
JR502
JR501
JR503
W517
W525
W530
W533
C536
C535
C504
C506
C503
C522
C532
C565
W526
W547
PRODUCTION CODE
CMK P3X
H
CN604

(ANP7363-A)

SIDE A

R COMPONENT ASSY

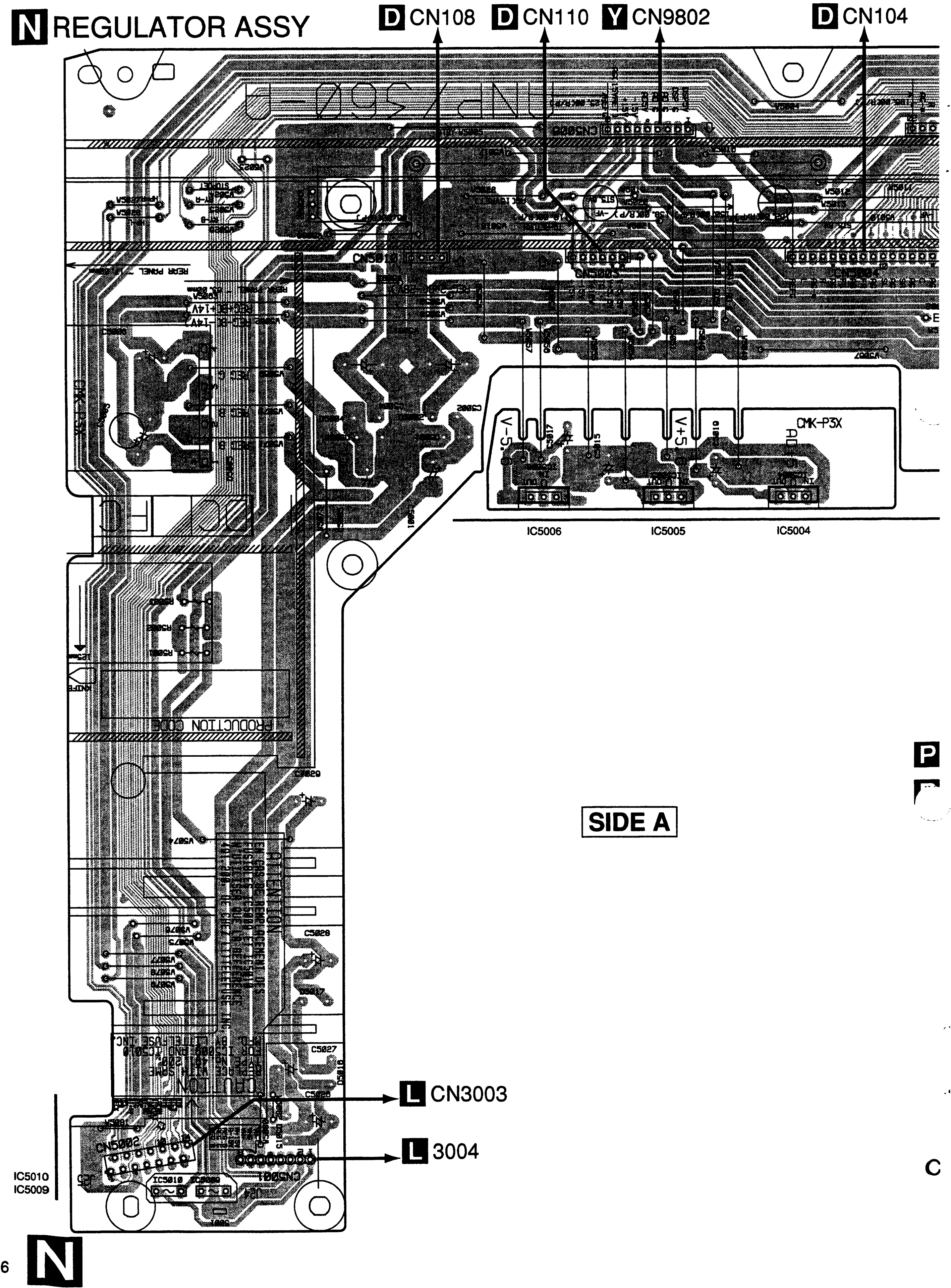

L551
L552
L553
D551
D552
IC551
IC501
IC503
IC502
R527
R528
R520
R535
R553
R556
R504
R524
R522
R508
R525
R521
R520
R519
R518
R517
R516
R515
R514
R510
C529
C530
C528
C517
C526
C516
C525
C505
C515
C514
C513
C518
C519
C506
AWX7582

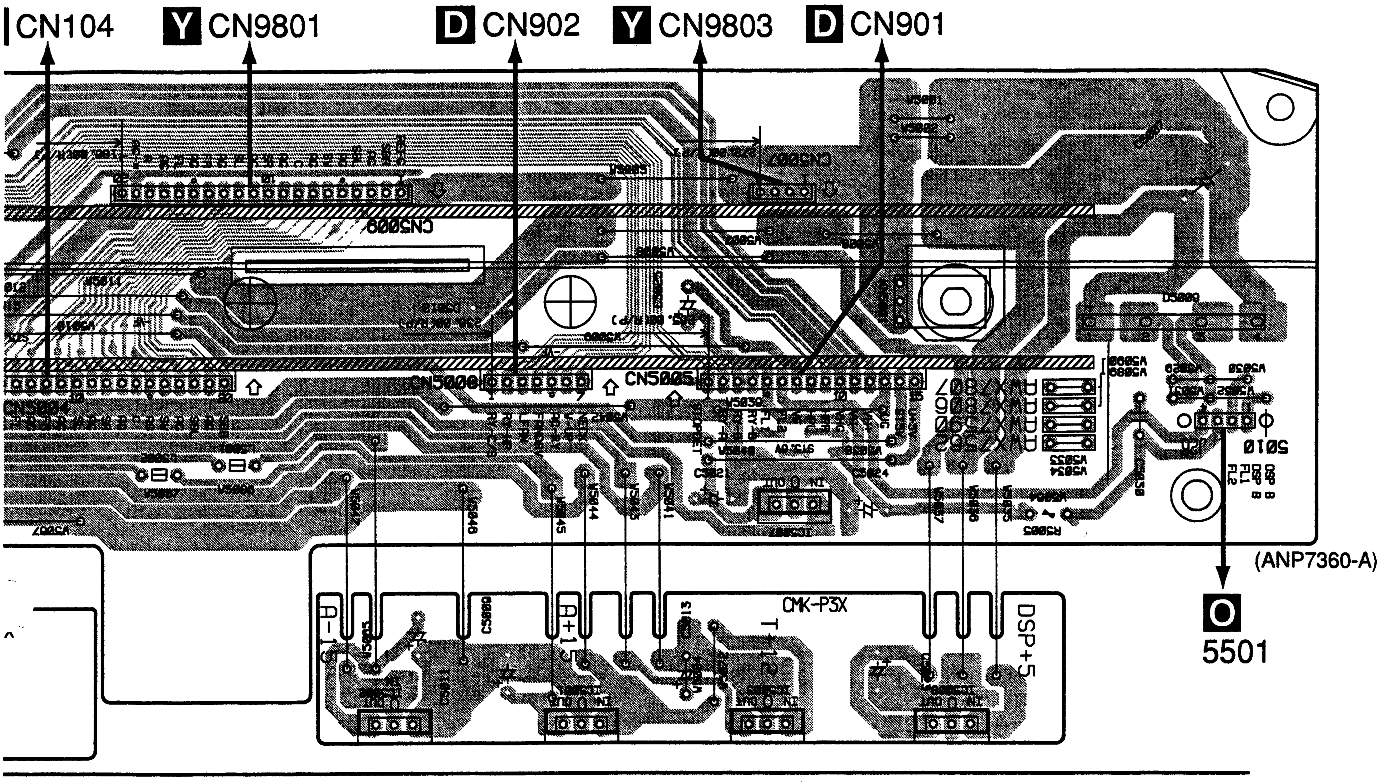
(ANP7363-A)

IC551 IC501 IC503 IC502

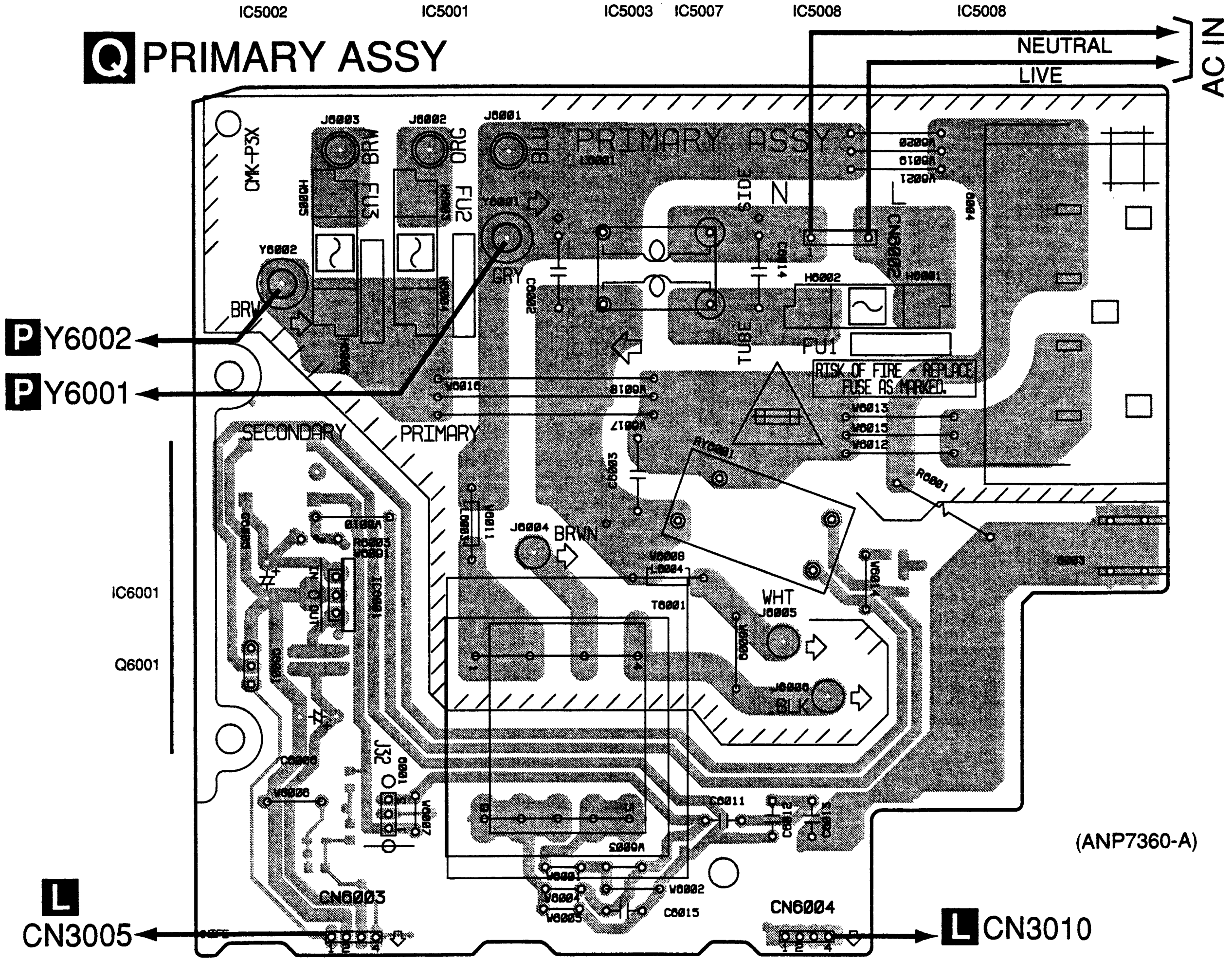
SIDE B

4.13 REGULATOR and PRIMARY ASSYS


N REGULATOR ASSY
D CN108
D CN110
Y CN9802
D CN104
CN5010
CN5005
CMK-P3X
V-5
V+5
IC5006
IC5005
IC5004
PRODUCTION CODE
SIDE A
L CN3003
L 3004
CN5002
CN5001
IC5010
IC5009
P
C
1
2
3
4
A
B
C
D


CN104
Y CN9801
D CN902
Y CN9803
D CN901
CN5009
CN5007
CN5006
CN5005
CN5004
CMK-P3X
A-15
A+15
T+12
DSP+5
(ANP7360-A)
O 5501
IC5002
IC5001
IC5003
IC5007
IC5008
IC5008

Q PRIMARY ASSY


NEUTRAL
LIVE
AC IN
CMK-P3X
PRIMARY ASSY
J6003
J6002
J6001
BRW
ORG
BLU
FU3
FU2
FU1
SIDE
N
L
CN6002
TUBE
RISK OF FIRE - REPLACE FUSE AS MARKED.
GRY
Y6002
BRW
P Y6002
P Y6001
SECONDARY
PRIMARY
J6004
BRWN
T6001
WHT
J6005
J6006
BLK
IC6001
Q6001
J32
CN6003
CN6004
L CN3005
L CN3010
(ANP7360-A)

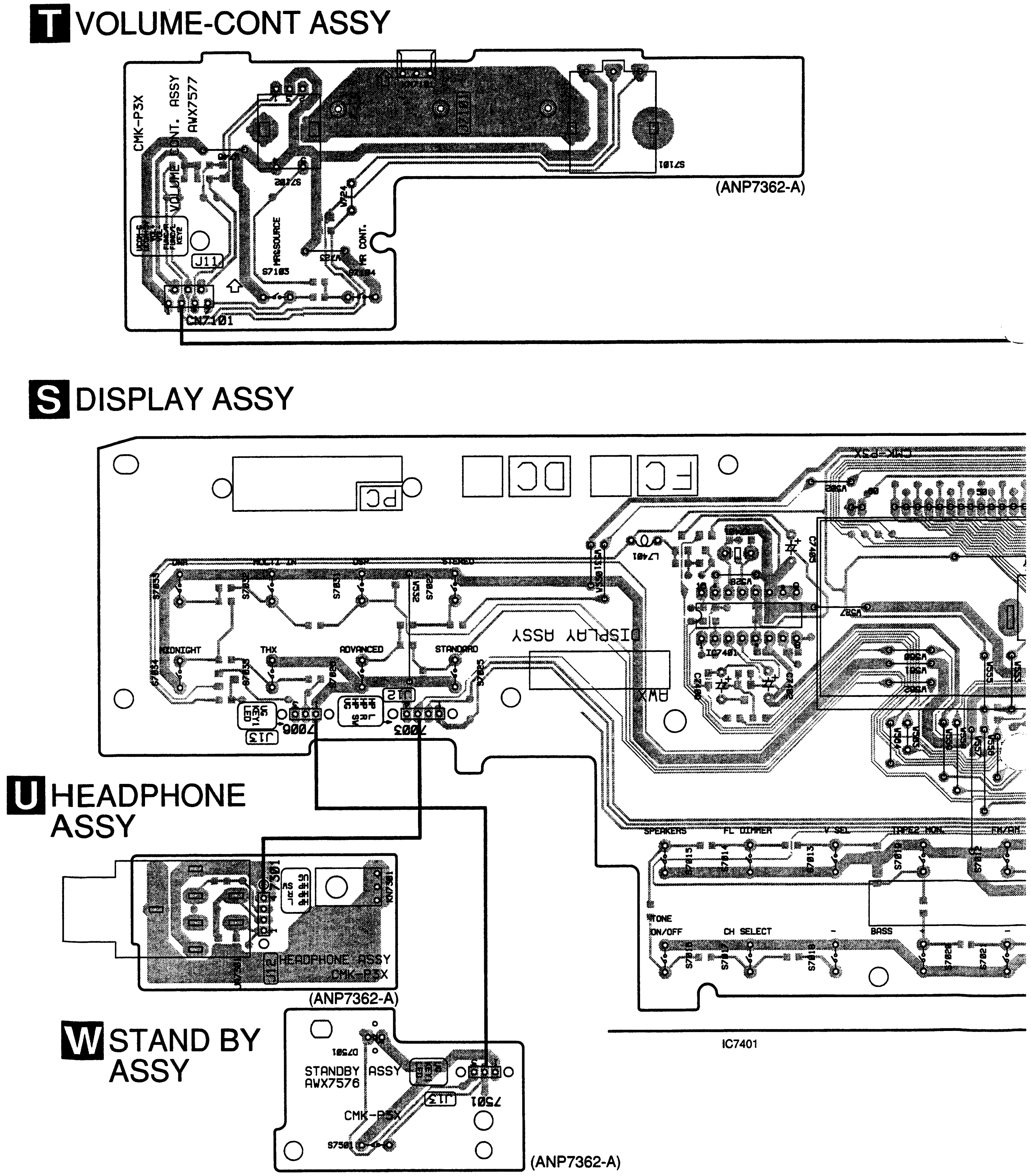
4.14 DISPLAY, VOLUME-CONT, HEADPHONE, FRONT AV and STANDBY ASSYS

T VOLUME-CONT ASSY

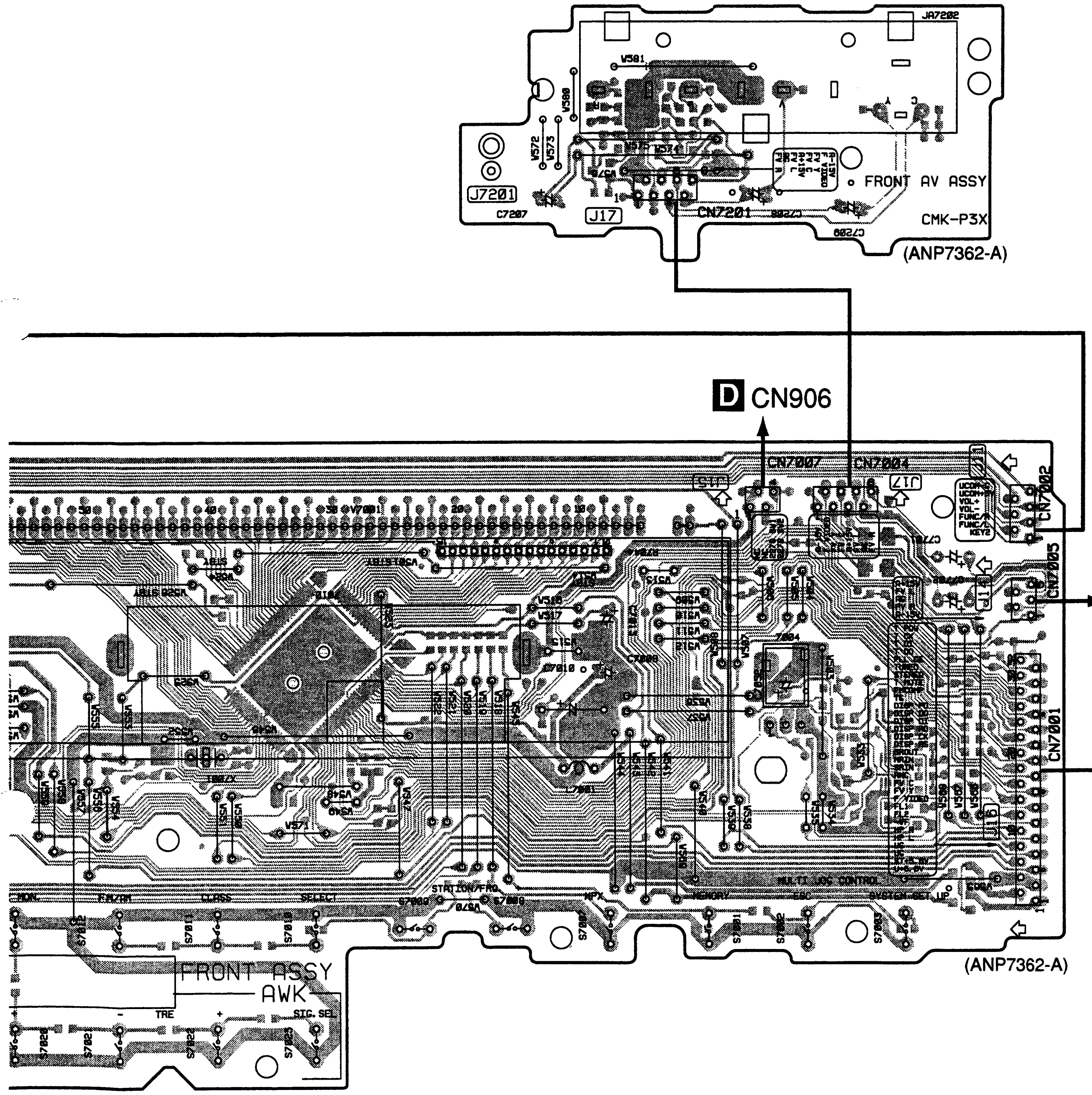
S DISPLAY ASSY

U HEADPHONE ASSY

W STAND BY ASSY

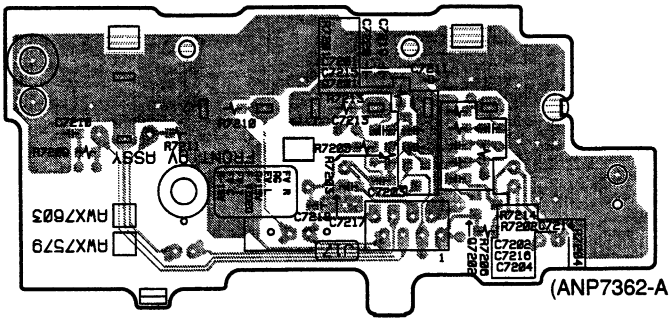

A
B
C
D
CMK-P3X
VOLUME CONT. ASSY
AWX7577
S7101
S7102
S7103
S7104
MASSOURCE
MR CONT.
J11
CN7101
(ANP7362-A)
PC
DC
FC
DNR
MULTI IN
DSP
STEREO
MIDNIGHT
THX
ADVANCED
STANDARD
S7833
S7834
S7835
S7836
S7831
S7832
S7827
S7828
S7825
L7401
IC7401
DISPLAY ASSY
AWX
J13
J12
7006
7005
SPEAKERS
FL DIMMER
V SEL
TAPE2 MON
FM/AM
TONE ON/OFF
CH SELECT
BASS
S7815
S7814
S7813
S7810
S7816
S7817
S7818
S7820
IC7401
CN7301
HEADPHONE ASSY
CMK-P3X
(ANP7362-A)
D7501
STANDBY ASSY
AWX7576
J13
7501
CMK-P3X
S7501
(ANP7362-A)

V FRONT AV ASSY

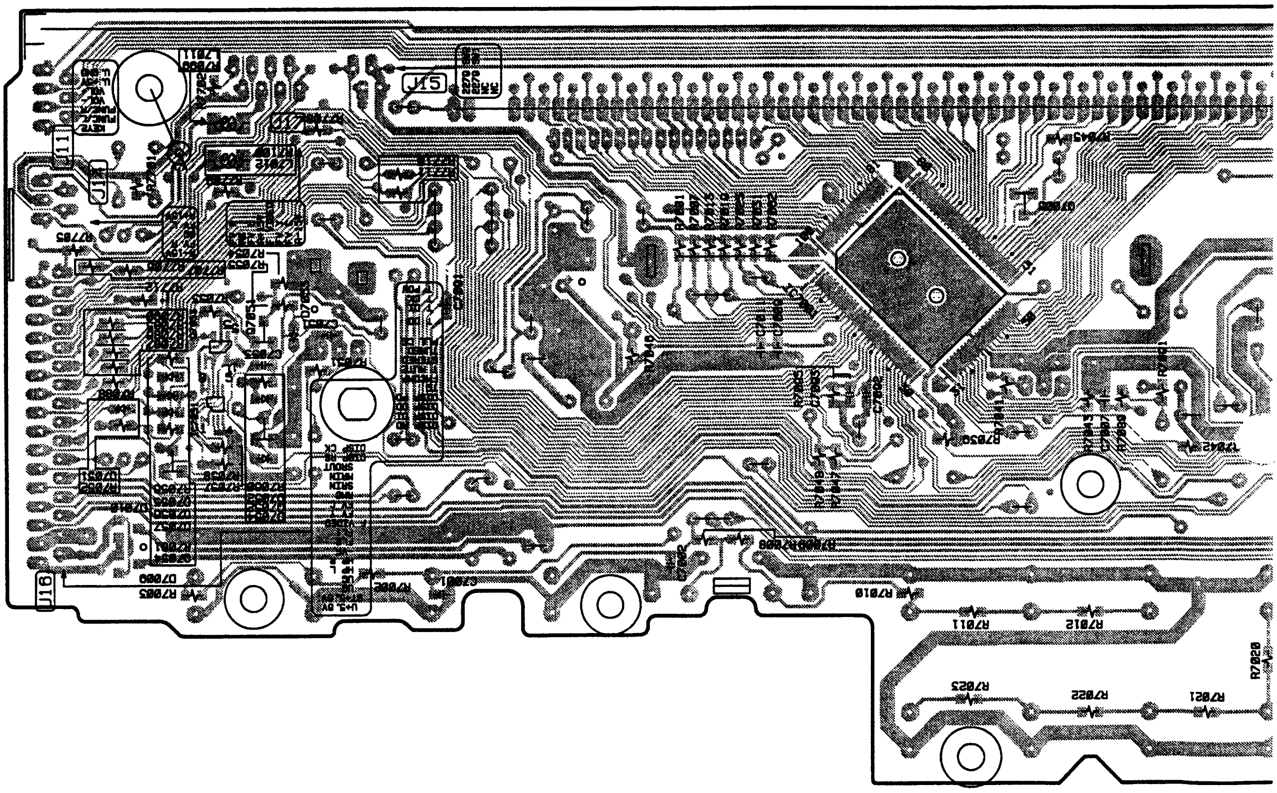

JA7202
V581
V580
V572
V573
V575
V574
V576
J7201
C7207
J17
CN7201
C7208
C7209
FRONT AV ASSY
CMK-P3X
(ANP7362-A)
D CN906
CN7007
CN7004
CN7002
CN7005
D CN102
CN7001
D CN903
J15
J17
J16
J14
V7001
X7001
L7001
C7009
C7010
7004
MULTI JOG CONTROL
MONO
FM/AM
CLASS
SELECT
STATION/FRQ.
MPX
MEMORY
ESC
SYSTEM SET UP
S7009
S7008
S7007
S7001
S7002
S7003
S7012
S7011
S7010
(ANP7362-A)
FRONT ASSY
AWK
-
TRE
+
STG. SEL
S7020
S7021
S7022
S7023

SIDE A

V FRONT AV ASSY

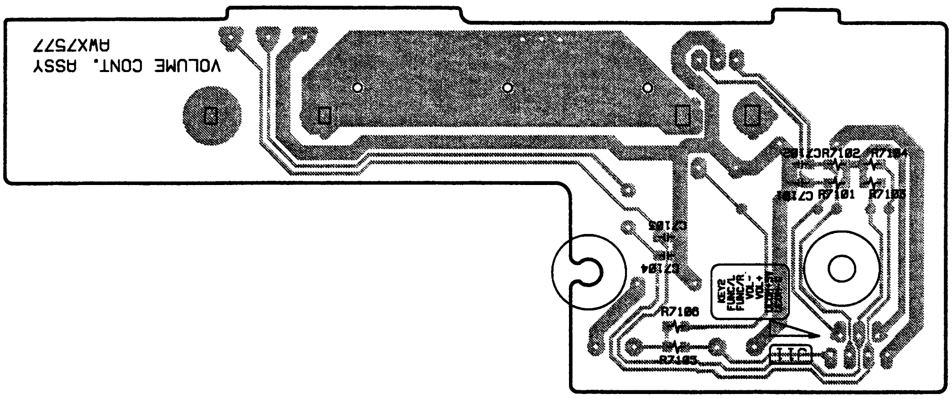

FRONT AV ASSY
AWX7603
AWX7579
J17
(ANP7362-A)

S DISPLAY ASSY

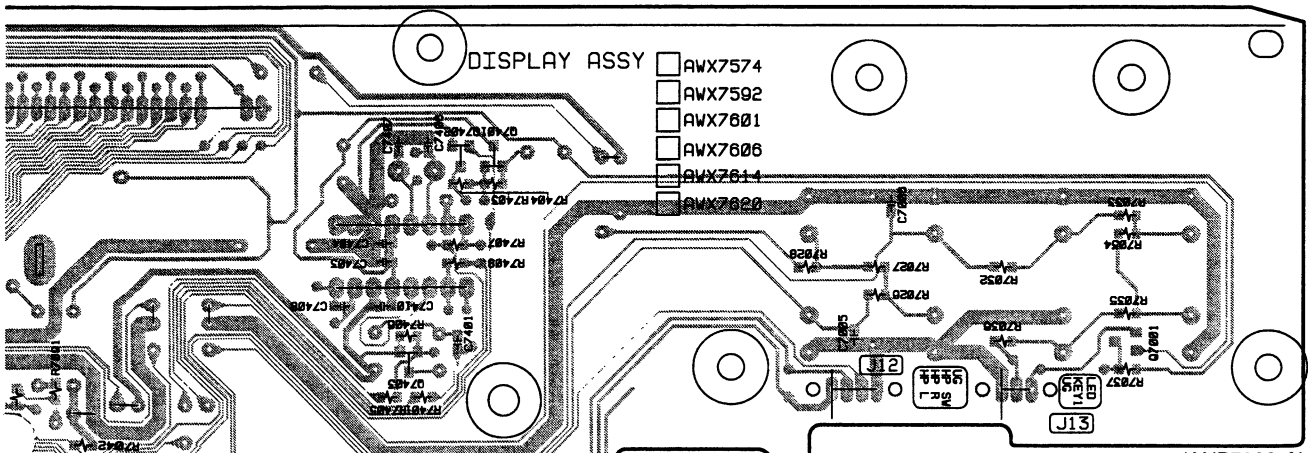

J11
J15
J16
R7011
R7012
R7021
R7022
R7023
R7020
R7010
R7005
Q7054 Q7053 Q7051
IC7051 Q7052
IC7001
Q7005

SIDE B

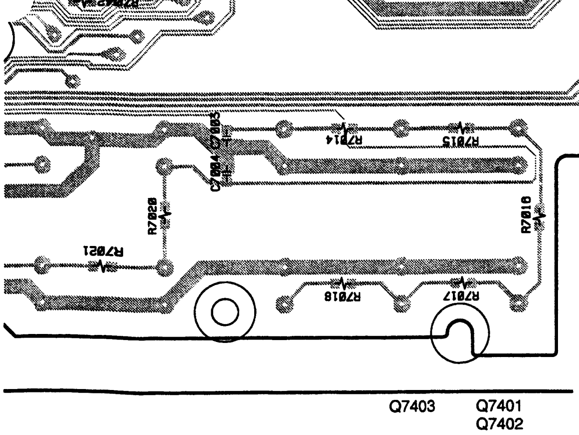
T VOLUME-CONT ASSY


VOLUME CONT. ASSY
AWX7577
C7102
R7102
R7104
C7103
R7101
R7103
C7105
C7104
R7106
R7105
J11

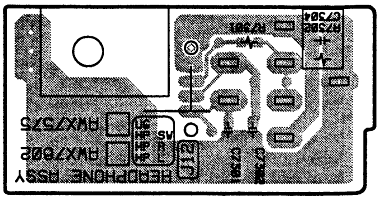
(ANP7362-A)


DISPLAY ASSY
☐ AWX7574
☐ AWX7592
☐ AWX7601
☐ AWX7606
☐ AWX7614
☐ AWX7620
J12
J13
Q7001
R7026
R7027
R7028
R7032
R7033
R7034
R7035
R7036
R7037
C7404
C7405
C7406
R7407
R7408
Q7405
R7001

(ANP7362-A)

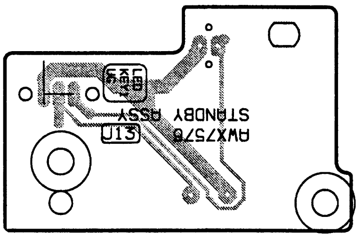

R7014
R7015
C7004
C7005
R7020
R7016
R7021
R7018
R7017
Q7403
Q7401
Q7402

U HEADPHONE ASSY


HEADPHONE ASSY
AWX7575
AWX7602
J12
R7301
R7302
C7304

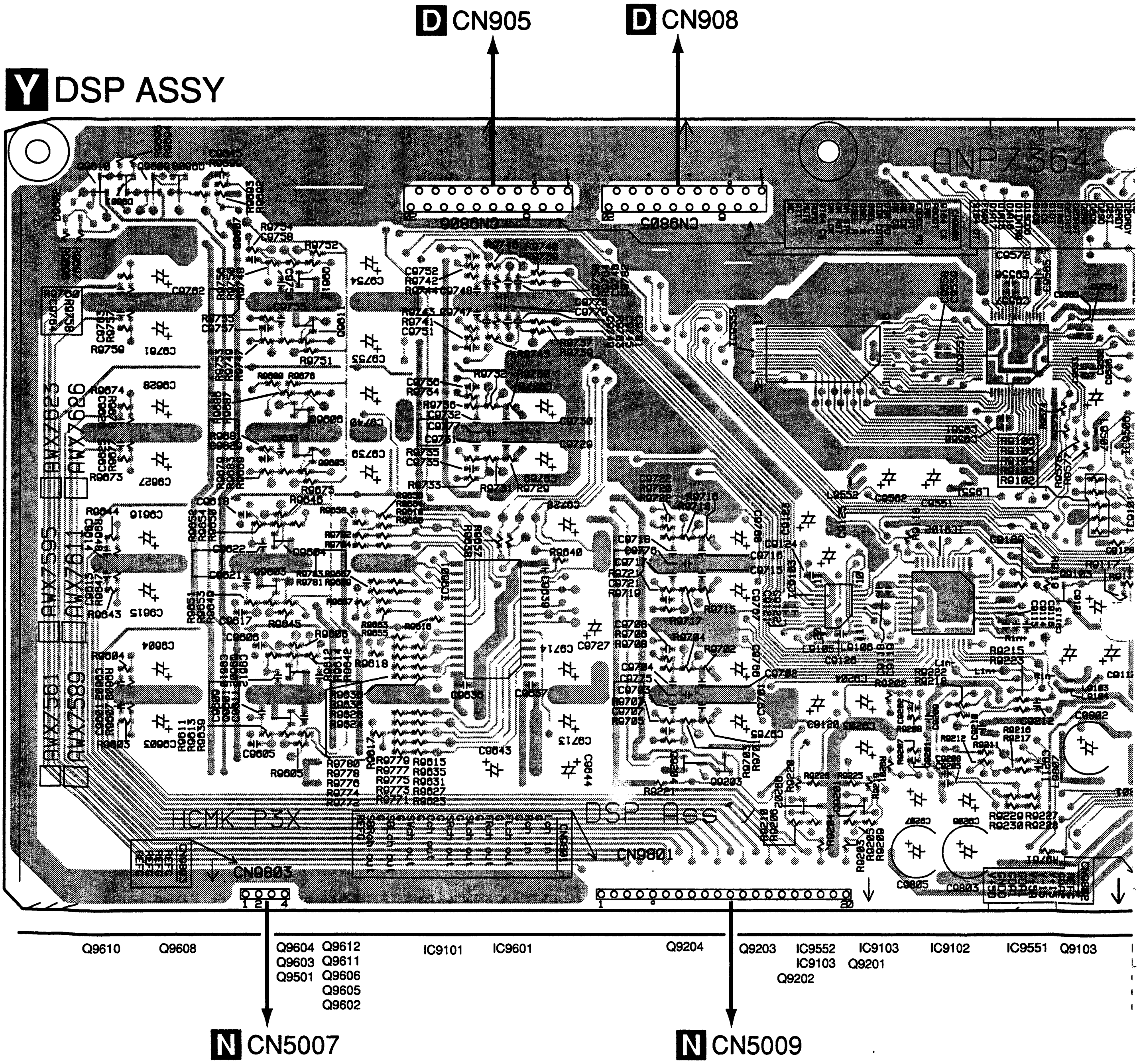
(ANP7362-A)

W STAND BY ASSY

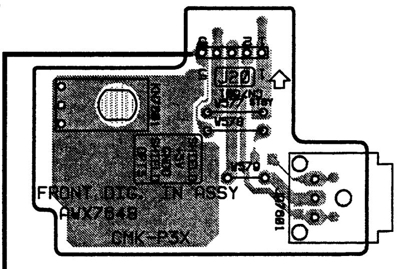

STANDBY ASSY
AWX7576
J13
LED
KEY

(ANP7362-A)

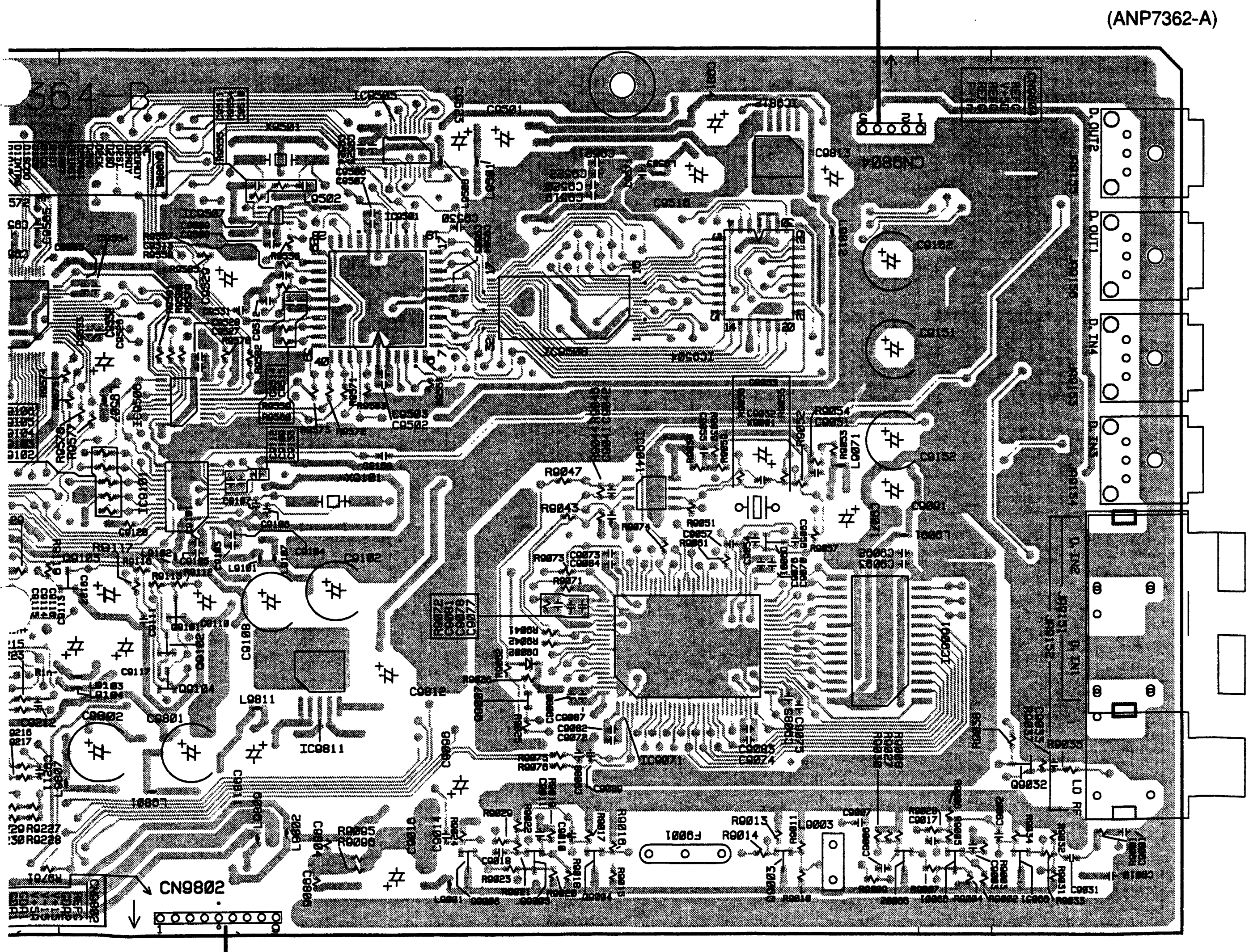
4.15 DSP and FRONT DIGIN ASSYS


D CN905
D CN908
Y DSP ASSY
ANP7364
CN9805
CN9806
HCMK P3X
DSP Assy
CN9803
CN9801
Q9610
Q9608
Q9604
Q9603
Q9501
Q9612
Q9611
Q9606
Q9605
Q9602
IC9101
IC9601
Q9204
Q9203
IC9552
IC9103
Q9202
IC9103
Q9201
IC9102
IC9551
Q9103
N CN5007
N CN5009

X FRONT DIGIN ASSY


FRONT DIG. IN ASSY
AWX7848
GMK-P3X

(ANP7362-A)


CN9804
CN9802
IC9811
IC9071
IC9061
IC9504
F9001
C9151
C9152
C9102
C9108
C9501
C9801
C9802
L9811
R9047
R9043
Q9032
Q9104
D.OUT2
D.OUT1
D.IN4
D.IN3
D.IN2
D.IN1
LD RF

IC9551 Q9103 IC9506 IC9101 Q9401 Q9102 Q9104 IC9507 IC9811 IC9505 IC9501 Q9006 Q9007 Q9005 IC9508 Q9004 IC9041 IC9071 IC9812 IC9504 Q9003 IC9091 Q9002 Q9001 Q9032 Q9031

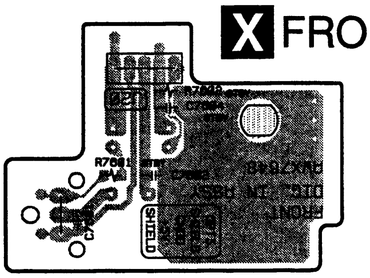
(ANP7364-B)

N CN5006

SIDE A

A

X FRONT DIGIN ASSY

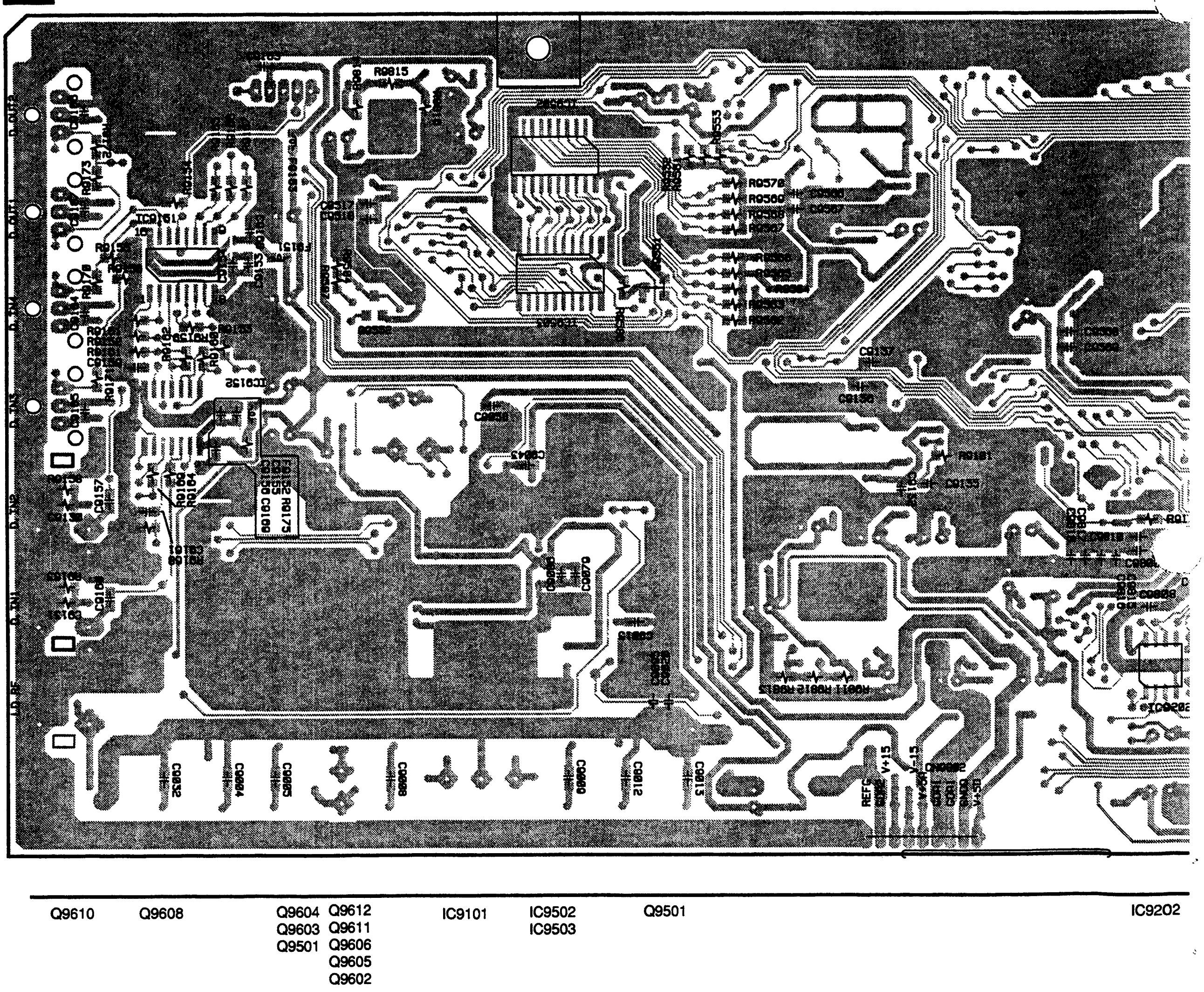

R7002
R7001
SHIELD
FRONT DIG. IN ASSY

(ANP7362-A)

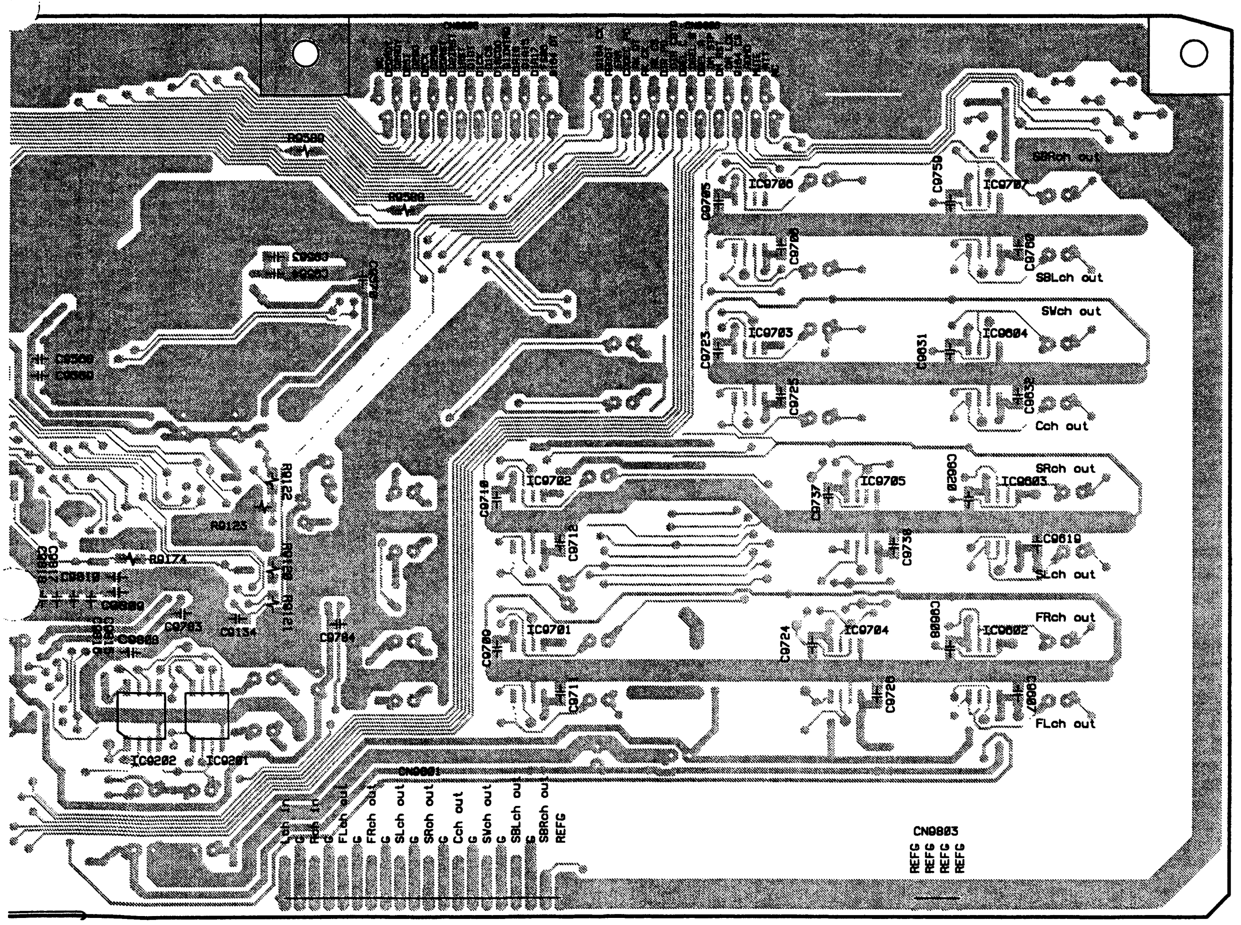
Y DSP ASSY

B

C


R0915
IC9161
IC0152
CO157
R0173
R0578
R0560
C0567
C0137
C0130
R0181
C0135
C0832
C0804
C0805
C0808
C0809
C0812
C0813
REF
V+15
V-15
V+5D
IC9202
Q9610
Q9608
Q9604
Q9603
Q9501
Q9612
Q9611
Q9606
Q9605
Q9602
IC9101
IC9502
IC9503
Q9501
IC9202

D


CN9802
CN9803
R9500
R9508
C9902
C9903
C9500
C9509
IC9706
IC9707
C9705
C9759
C9708
C9760
SBRch out
SBLch out
SWch out
IC9703
IC9604
C9723
C9631
C9725
C9632
Cch out
SRch out
IC9702
IC9705
IC9603
C9710
C9737
C9629
C9712
C9736
C9619
SLch out
FRch out
IC9701
IC9704
IC9602
C9700
C9724
C9608
C9711
C9726
C9603
FLch out
R9122
R9123
R9174
R9121
C9703
C9134
C9704
C9808
C9810
IC9202
IC9201
CN9801
Lch in
Rch in
G
FLch out
G
FRch out
G
SLch out
G
SRch out
G
Cch out
G
SWch out
G
SBLch out
G
SBRch out
REFG
CN9803
REFG
REFG
REFG
REFG

IC9202 IC9201

IC9702
IC9701

IC9706
IC9703

IC9705
IC9704

IC9702
IC9604
IC9603
IC9602

(ANP7364-B)

SIDE B

5. PCB PARTS LIST

NOTES: ●*Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*

●*The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

●*When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56×10^1 → 561 .... RD1/4PU $\boxed{5}\boxed{6}\boxed{1}$ J
47k Ω → 47×10^3 → 473 .... RD1/4PU $\boxed{4}\boxed{7}\boxed{3}$ J
0.5 Ω → R50 .... RN2H $\boxed{R}\boxed{5}\boxed{0}$ K
1 Ω → 1R0 .... RS1P $\boxed{1}\boxed{R}\boxed{0}$ K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562×10^1 → 5621 .... RN1/4PC $\boxed{5}\boxed{6}\boxed{2}\boxed{1}$ F

■ LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	Part No.		Remarks
		VSX-35TX/KUXJI/CA	VSX-33TX/KUXJI/CA	
	FM/AM TUNER UNIT	AXQ7231	AXQ7231	
NSP	COMPLEX ASSY	AWK7592	AWK7613	
	├─EX I/O ASSY	AWX7568	Not used	
	├─5.1CH I/O ASSY	Not used	AWX7613	
	├─A-CONNECTION ASSY	AWX7566	AWX7619	
	├─TRANS 2-2 ASSY	AWX7565	AWX7720	
	├─REGULATOR ASSY	AWX7562	AWX7562	
	├─V-CONNECTION ASSY	AWX7567	AWX7717	
	├─PRIMARY ASSY	AWX7563	AWX7563	
NSP	└─TRANS 1 ASSY	AWX7564	AWX7564	
NSP	POWER ASSY	AWK7593	AWK7598	
	├─INPUT ASSY	AWX7573	AWX7585	
	├─FRONT AMP ASSY	AWX7569	AWX7569	
	├─REAR AMP ASSY	AWX7570	AWX7570	
	├─SP/PS ASSY	AWX7571	AWX7721	
	└─TRANS 2-1 ASSY	AWX7572	AWX7572	
NSP	MAIN ASSY	AWK7591	AWK7612	
	├─MAIN CONTROL ASSY	AWX7560	AWX7610	
	└─DSP ASSY	AWX7561	AWX7611	
NSP	FRONT ASSY	AWK7594	AWK7614	
	├─V-AMP ASSY	AWX7578	AWX7578	
	├─S VIDEO ASSY	AWX7580	AWX7616	
	├─COMPOSITE ASSY	AWX7581	AWX7617	
	├─FRONT AV ASSY	AWX7579	AWX7579	
	├─DISPLAY ASSY	AWX7574	AWX7614	
	├─VOLUME-CONT ASSY	AWX7577	AWX7577	
	├─HEADPHONE ASSY	AWX7602	AWX7602	
	├─FRONT DIGIN ASSY	AWX7648	Not used	
	└─STAND BY ASSY	AWX7576	AWX7576	
NSP	VIDEO ASSY	AWK7595	Not used	
	└─COMPONENT ASSY	AWX7582	Not used	

C INPUT ASSY

AWX7573 and AWX7585 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7573	AWX7585	
	Q1001, Q1002	2SC2878	Not used	
	D1051	1SS133	Not used	
	C1051	CGCYX103M16	Not used	
	R1013-R1016, R1051	RD1/4PU102J	Not used	
	R1017, R1018	RD1/4PU473J	Not used	
	CN1002 6P SOCKET	KP200TA6L	Not used	
	JA1004 2P PIN JACK	AKB7046	Not used	
	JA1051 MULTI ROOM JACK	AKN7014	Not used	

D MAIN CONTROL ASSY

AWX7560 and AWX7610 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7560	AWX7610	
	IC101	M5220FP	Not used	
	IC103	TC9164AF	Not used	
	IC104	NJM4558MD	Not used	
	Q905	DTA124EK	Not used	
	C113, C114	CEAT100M50	Not used	
	C115, C116	CCSQCH181J50	Not used	
	C117, C118	CEAT470M25	Not used	
	C121, C122	CQMA822J50	Not used	
	C123, C124	CQMA242J50	Not used	
	C125, C126	CEAT2R2M50	Not used	
	C127, C128	CEJQ101M25	Not used	
	C133, C134, C911	CKSRYB103K50	Not used	
	C135, C136	CEAT1R0M50	Not used	
	C191-C193	CCSRCH101J50	Not used	
	R111, R112	RS1/10S0R0J	Not used	
	R113, R114, R117, R118, R129, R130, R139, R140	RS1/10S104J	Not used	
	R203, R204	RS1/10S104J	Not used	
	R115, R116	RS1/10S331J	Not used	
	R119, R120	RS1/10S511J	Not used	
	R121, R122	RS1/10S394J	Not used	
	R123, R124	RS1/10S303J	Not used	
	R125, R126, R133, R134	RS1/10S471J	Not used	
	R131, R132	RS1/10S474J	Not used	
	R135, R136, R934, R944-R946	RS1/16S102J	Not used	
	R923	Not used	RS1/16S103J	
	R924	RS1/16S103J	Not used	
	R933	RS1/16S473J	Not used	
	R990, R991	RS1/10S102J	Not used	
	CN103 9P PLUG	AKP7057	Not used	
	CN906 4P FFC CONNECTOR	52045-0445	Not used	
	JA151 2P PIN JACK	VKB1060	Not used	

E A-CONNECTION ASSY

AWX7566 and AWX7619 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7566	AWX7619	
	IC1501	TC9215AF	Not used	
	IC1502	TC9459F	Not used	
	IC1503	NJM4558MD	Not used	
	IC1551	M62429FP	Not used	
	D1551	UDZS5.1B	Not used	
	C1501-C1504, C1517, C1518	CKSQYB103K50	Not used	
	C1507, C1508	CEAT100M50	Not used	
	C1511, C1512	CCSQCH560J50	Not used	
	C1515, C1516, C1551-C1553	CEAT100M50	Not used	
	C1541-C1543	CCSQCH101J50	Not used	
	C1554, C1555	CCSQCH101J50	Not used	
	C1556, C1557	CEAT1R0M50	Not used	
	R1503, R1504, R1511, R1512	RS1/10S104J	Not used	
	R1505, R1506, R1554, R1555	RS1/10S103J	Not used	
	R1507, R1508	RS1/10S472J	Not used	
	R1509, R1510	RS1/10S152J	Not used	
	R1541-R1545, R1552, R1553	RS1/10S102J	Not used	
	R1551	RS3LMF391J	Not used	
	R1569-R1574	RS1/10S0R0J	Not used	
	CN1552 9P SOCKET	AKP7068	Not used	
	CN1554 6P PLUG	KM200TA6	Not used	

F COMPOSITE ASSY

AWX7581 and AWX7617 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7581	AWX7617	
	IC731	NJM2279M	Not used	
	IC751	TC4W53FU	Not used	
	Q701	2SA933S	Not used	
	D731	DAN202K	Not used	
	C707	CCSQCH181J50	Not used	
	C712, C734, C735	CEAT101M10	Not used	
	C713	CEAT101M16	Not used	
	C714, C732, C733, C736, C785, C786	CKSQYB473K50	Not used	
	C715	CCSQCH150J50	Not used	
	C737	CCSQCH470J50	Not used	
	R707	RS1/10S750J	Not used	
	R712	RS1/10S183J	Not used	
	R713	RS1/10S103J	Not used	
	R714	RS1/10S101J	Not used	
	R715	RD1/2VM201J	Not used	
	R733-R735, R766	RS1/10S102J	Not used	
	R767	RS1/10S104J	Not used	
	JA703	Not used	VKB1048	
	703 2P PIN JACK	AKB7017	Not used	

G S VIDEO ASSY

AWX7580 and AWX7616 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7580	AWX7616	
	IC852	BU4053BCF	Not used	
	C854	CCSQCH151J50	Not used	
	C855, C856	CKSQYB103K50	Not used	
	R855	RS1/10S103J	Not used	
	R868-R870	RS1/10S102J	Not used	
	R883, R885	Not used	RS1/10S0R0J	
	R884	RS1/10S0R0J	Not used	

H V-CONNECTION ASSY

AWX7567 and AWX7717 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7567	AWX7717	
	Q601	KRC103M	Not used	
	C601	CKSQYB103K50	Not used	
	R601	RS1/10S103J	Not used	
	CN604 10P PLUG	KM200TA10	Not used	

L SP/PS ASSY

AWX7571 and AWX7721 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7571	AWX7721	
	L3111, L3112 BEAD FILTER	ATX1012	Not used	
	C3001, C3002	ACH7147	ACH7145	

O TRANS 2-2 ASSY

AWX7565 and AWX7720 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7565	AWX7720	
	C5501, C5502	CQMA104J50	Not used	
	R5501	RD1/4MUF100J	Not used	

S DISPLAY ASSY

AWX7574 and AWX7614 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7574	AWX7614	
	IC7051	TC7W53FU	Not used	
	Q7053	FM1A	Not used	
	Q7054	DTC124EK	Not used	
	D7054-D7057	1SS355	Not used	
	C7053	CKSQYB153K50	Not used	
	R7056	RS1/10S223J	Not used	
	R7057	RS1/10S392J	Not used	
	R7058, R7061	RS1/10S103J	Not used	
	CN7007 4P FFC CONNECTOR	52045-0445	Not used	

Y DSP ASSY

AWX7561 and AWX7611 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7561	AWX7611	
	IC9103	CS4391	Not used	
	IC9602-IC9604, IC9701-IC9705	UPC4570G2	NJM4558MD	
	IC9706, IC9707	UPC4570G2	Not used	
	Q9611, Q9612	2SC3326	Not used	
	L9105, L9106 CHIP SOLID INDUCTOR	QTL1013	Not used	
	C9120	CEJA470M16	Not used	
	C9121, C9124	CKSRYB103K50	Not used	
	C9122	CCSRCH471J50	Not used	
	C9123, C9125	CEJA1R0M50	Not used	
	C9126	CKSRYB104K16	Not used	
	C9167	CKSQYF104Z50	Not used	
	C9705, C9706, C9759, C9760	CKSQYF104Z25	Not used	
	C9745, C9746, C9781, C9782	CKSRYB102K50	Not used	
	C9749-C9752	CCSRCH221J50	Not used	
	C9753, C9754	CEJA330M10	Not used	
	C9755, C9756	CKSRYB122K50	Not used	
	C9757, C9758	CCSRCH271J50	Not used	
	C9761, C9762	CEJA4R7M50	Not used	
	C9763, C9764	CKSRYB222K50	Not used	
	R9104	RS1/16S101J	RS1/16S331J	
	R9120, R9122	RS1/10S681J	Not used	
	R9121, R9749, R9750	RS1/10S562J	Not used	
	R9123	RS1/10S182J	Not used	
	R9154	RS1/10S104J	RS1/10S0R0J	
	R9173	RS1/10S0R0J	Not used	
	R9577	RS1/16S331J	Not used	
	R9737-R9742, R9753, R9754, R9763, R9764	RS1/10S153J	Not used	
	R9743-R9746, R9755, R9756	RS1/16S332J	Not used	
	R9747, R9748	RS1/16S122J	Not used	
	R9751, R9752	RS1/16S822J	Not used	
	R9757, R9758	RS1/16S474J	Not used	
	R9759, R9760	RS1/16S101J	Not used	
	CN9804 KR CONNECTOR	S5B-PH-K-S	Not used	
	JA9156 OPTICAL LINK OUT	GP1FA551TZ	Not used	

■ PCB PARTS LIST FOR VSX-35TX/KUXJI/CA UNLESS OTHERWISE NOTED

A FM/AM TUNER UNIT

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC201		BA1451F
	IC202		LC72131MD
	Q201,Q204,Q205		2SC2412K
	Q202		DTA124ES
	Q203		DTC124EK
	D201		1SS133
	D202		MTZJ5.1C

COILS AND FILTERS

Mark	No.	Description	Part No.
	L201	FM COIL	ATE7003
	F202	FM CERAMIC FILTER	ATF-107
	F201	FM CERAMIC FILTER	ATF-119
	F203	AM CERAMIC FILTER	ATF7026

CAPACITORS

Mark	No.	Description	Part No.
	C206		CCSRCH100D50
	C212,C213,C226,C233-C235		CCSRCH101J50
	C240		CCSRCH101J50
	C231,C232		CCSRCH150J50
	C223		CEAT100M50
	C229		CEAT101M10
	C224		CEAT1R0M50
	C227		CEAT220M25
	C241		CEAT2R2M50
	C243		CEAT330M16
	C228		CEAT3R3M50
	C237		CEAT470M10
	C211		CEJA1R0M50
	C210		CEJA470M16
	C204,C238,C602		CKSRYB102K50

Mark	No.	Description	Part No.
	C101,C102,C208,C220,C239		CKSRYB103K50
	C242,C601		CKSRYB103K50
	C216,C217,C225		CKSRYB153K50
	C201,C205,C209,C214,C230		CKSRYB223K50
	C236,C603		CKSRYB223K50
	C221		CKSRYB224K10
	C202,C222		CKSRYB473K16
	C215		CKSRYB681K50

RESISTORS

	R211		RD1/4PU221J
	R221		RD1/4PU222J
	R233		RD1/4PU391J
	R243		RS1/10S0R0J
	R103		RS1/10S331J
	R104		RS1/10S391J
	Other Resistors		RS1/16S□□□J

OTHERS

	CN201	13P FFC CONNECTOR	52044-1345
	BN201	4P ANTENNA TERMINAL	AKA7003
		SHIELD CASE T	ANK7072
		SHIELD CASE B	ANK7073
	X201	CRYSTAL RESONATOR (7.2MHz)	ASS1093

B EX I/O ASSY (For VSX-35TX)

SEMICONDUCTORS

	IC1101-IC1104		UPC4570G2
	Q1151-Q1158		HN1C03F

CAPACITORS

	C1114,C1125-C1132		CEAT100M50
	C1109-C1113,C1115,C1116		CEAT4R7M50
	C1133-C1142,C1159,C1160		CKSQYB103K50

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

	CN1112,CN1162	2P PIN JACK	AKB7008
	JA1113,JA1163	2P PIN JACK	AKB7046
	JA1111,JA1161	4P PIN JACK	AKB7048
	CN1102	5P SOCKET	AKP7066
	CN1101,CN1151	9P SOCKET	AKP7068

B 5.1CH I/O ASSY (For VSX-33TX)

SEMICONDUCTORS

	IC1101-IC1103		NJM4558MD
	Q1151-Q1156		HN1C03F

CAPACITORS

	C1114,C1125-C1130		CEAT100M50
	C1109-C1113		CEAT4R7M50
	C1133-C1138,C1141,C1142,C1159		CKSQYB103K50
	C1160		CKSQYB103K50

RESISTORS

	All Resistors		RS1/10S□□□J

Mark	No.	Description	Part No.

OTHERS

	CN1112,CN1162	2P PIN JACK	AKB7008
	JA1111,JA1161	4P PIN JACK	AKB7048
	CN1102	5P SOCKET	AKP7066
	CN1101,CN1151	9P SOCKET	AKP7068

C INPUT ASSY

SEMICONDUCTORS

	Q1001,Q1002		2SC2878
	D1051		1SS133

CAPACITORS

	C1019,C1021,C1051		CGCYX103M16

RESISTORS

	All Resistors		RD1/4PU□□□J

OTHERS

	JA1004	2P PIN JACK	AKB7046
	JA1001-JA1003	4P PIN JACK	AKB7048
	JA1051	MULTI ROOM JACK	AKN7014
	CN1001	14P SOCKET	KP200TA14L
	CN1002	6P SOCKET	KP200TA6L

D MAIN CONTROL ASSY

SEMICONDUCTORS

	IC101		M5220FP
	IC104		NJM4558MD
	IC901		PD5587A
	IC107,IC109		TC9163AF
	IC103		TC9164AF
	IC102		TC9274F-001
	IC108		TC9482F
	IC106,IC110-IC112		UPC4570G2
	Q291		2SC1740S
	Q251,Q252		2SC2412K
	Q902,Q905		DTA124EK
	Q901		DTC143EK
	D254,D255,D901-D910		1SS355
	D301,D302		RB501V-40
	D292		UDZ11B
	D256		UDZS5.1B

COILS

	L901		LCTA2R2J3225
	L991-L993	NOISE FILTER	RTF1167

CAPACITORS

	C902 (0.22F/5.5V)		ACH7132
	C947-C949,C993		CCSQCH101J50
	C115,C116		CCSQCH181J50
	C159,C160		CCSQCH560J50
	C191-C193,C941-C946,C952		CCSRCH101J50
	C963,C964		CCSRCH101J50
	C171,C172,C183		CCSRCH560J50
	C113,C114,C131,C132		CEAT100M50
	C143,C144,C155,C156		CEAT100M50
	C163,C164,C167,C168		CEAT100M50

Mark	No.	Description	Part No.
	C175,C176,C179,C180		CEAT100M50
	C187,C188,C259-C261		CEAT100M50
	C135,C136		CEAT1R0M50
	C147,C148		CEAT220M50
	C903		CEAT221M10
	C125,C126,C905		CEAT2R2M50
	C921		CEAT331M10
	C117,C118		CEAT470M25
	C965		CEAT471M10
	C291		CEJA101M16
	C127,C128		CEJQ101M25
	C992		CKSQYB102K50
	C129,C130,C141,C142		CKSQYB103K50
	C161,C162,C165,C166		CKSQYB103K50
	C173,C174,C177,C178		CKSQYB103K50
	C189,C190,C901,C904,C920		CKSQYB103K50
	C299		CKSQYB104K25
	C991		CKSQYB221K50
	C298		CKSQYB223K50
	C292		CKSQYF225Z16
	C293		CKSRYB102K50
	C133,C134,C149,C150		CKSRYB103K50
	C195,C196,C257,C258,C294		CKSRYB103K50
	C911,C966,C967		CKSRYB103K50
	C184		CKSRYB333K16
	C910,C912		CKSRYB473K16
	C297,C906		CKSRYF105Z10
	C123,C124		CQMA242J50
	C121,C122		CQMA822J50

RESISTORS

R292		RS1/16S0R0J
R135,R136,R907,R918,R934		RS1/16S102J
R941-R949,R955-R957		RS1/16S102J
R165,R166,R177,R259-R262		RS1/16S103J
R912,R922,R924		RS1/16S103J
R199-R202,R257,R258,R910		RS1/16S104J
R913,R914,R932,R935		RS1/16S104J
R992,R993		RS1/16S104J
R159,R160,R171,R172		RS1/16S152J
R183,R184		RS1/16S152J
R178		RS1/16S183J
R984		RS1/16S392J
R133,R134		RS1/16S471J
R167,R168,R179,R180		RS1/16S472J
R293,R905,R906,R933		RS1/16S473J
R131,R132		RS1/16S474J
R903		RS1/16S512J
R911		RS1/16S683J
R157,R158,R169,R170		RS1/16S751J
R182		RS1/16S821J
Other Resistors		RS1/10S□□□J

OTHERS

X901	CERAMIC RESONATOR (15.7MHz)	ASS7032
CN906	4P FFC CONNECTOR	52045-0445
CN102	5P FFC CONNECTOR	52045-0545
CN907	10P FFC CONNECTOR	52045-1045

Mark	No.	Description	Part No.
	CN291	13P FFC CONNECTOR	52045-1345
	CN904,CN905,CN908	20P FFC CONNECTOR	52045-2045
	CN105	22P FFC CONNECTOR	52045-2245
	CN903	32P FFC CONNECTOR	52045-3245
	J901	4P SHIELD ASSY	ADX7347
	152	6P PIN JACK	AKB7012
	CN153	4P PIN JACK	AKB7015
	CN103	9P PLUG	AKP7057
	CN107	11P PLUG	AKP7058
	CN101,CN106	15P PLUG	AKP7060
	CN901	15P SOCKET	KP200TA15L
	CN104	20P SOCKET	KP200TA20L
	CN108	4P SOCKET	KP200TA4L
	CN110	6P SOCKET	KP200TA6L
	CN902	7P SOCKET	KP200TA7L
	JA991,JA992	REMOTE CONTROL JACK	RKN1004
	101	PCB BINDER	VEF1040
	JA151	2P PIN JACK	VKB1060

E A-CONNECTION ASSY

SEMICONDUCTORS

IC1551	M62429FP
IC1503	NJM4558MD
IC1501	TC9215AF
IC1502	TC9459F
D1551	UDZS5.1B

CAPACITORS

C1541-C1543,C1554,C1555	CCSQCH101J50
C1511,C1512	CCSQCH560J50
C1507,C1508,C1515,C1516	CEAT100M50
C1551-C1553	CEAT100M50
C1556,C1557	CEAT1R0M50
C1501-C1504,C1517,C1518	CKSQYB103K50

RESISTORS

R1551	RS3LMF391J
Other Resistors	RS1/10S□□□J

OTHERS

CN1505	5P PLUG	AKP7055
CN1501,CN1503	9P PLUG	AKP7057
CN1552	9P SOCKET	AKP7068
CN1502	11P SOCKET	AKP7069
CN1504,CN1551	15P SOCKET	AKP7071
CN1553	14P PLUG	KM200TA14
CN1554	6P PLUG	KM200TA6
1501	PCB BINDER	VEF1040

F COMPOSITE ASSY

SEMICONDUCTORS

IC731	NJM2279M
IC701	NJM2296M
IC751	TC4W53FU
Q701	2SA933S
D701,D731	DAN202K

CAPACITORS

Mark	No.	Description	Part No.
	C715		CCSQCH150J50
	C705-C707,C731		CCSQCH181J50
	C737		CCSQCH470J50
	C701-C704,C710-C712		CEAT101M10
	C734,C735,C781,C782		CEAT101M10
	C713		CEAT101M16
	C708,C709,C714,C732,C733		CKSQYB473K50
	C736,C785,C786,C793		CKSQYB473K50

RESISTORS

	R715		RD1/2VM201J
	Other Resistors		RS1/10S☐☐☐J

OTHERS

	703	2P PIN JACK	AKB7017
	JA702,JA704	3P PIN JACK	AKB7056
	CN701	12P SOCKET	KP200TA12L

G S VIDEO ASSY

SEMICONDUCTORS

	IC831		BU4051BCF
	IC852		BU4053BCF
	IC801,IC802		NJM2296M
	Q852,Q853		2SA933S
	Q833,Q834		IMH11
	Q831		IMZ1A
	D801,D802		1SS355

CAPACITORS

	C857		CCSQCH100D50
	C858		CCSQCH150J50
	C854		CCSQCH151J50
	C815-C818,C861,C862		CCSQCH181J50
	C809		CCSQCH330J50
	C801,C803,C805,C807		CEAT101M10
	C819-C822,C863,C881,C882		CEAT101M10
	C866,C868		CEAT101M16
	C831-C836,C855,C856		CKSQYB103K50
	C893,C894		CKSQYB103K50
	C810-C814,C859,C864,C865		CKSQYB104K25
	C802,C804,C806,C808		CKSQYB473K50
	C823-C826,C867,C869		CKSQYB473K50

RESISTORS

	R864		RD1/2VM201J
	R859		RD1/4VM471J
	Other Resistors		RS1/10S☐☐☐J

OTHERS

	CN802,CN803	4P MINI DIN SOCKET	AKP7020
	CN801	4P MINI DIN SOCKET	AKP7043
	CN804	11P SOCKET	KP200TA11L

H V-CONNECTION ASSY

SEMICONDUCTOR

	Q601		KRC103M

Mark	No.	Description	Part No.

CAPACITOR

	C601		CKSQYB103K50

RESISTORS

	All Resistors		RS1/10S☐☐☐J

OTHERS

	CN601	20P FFC CONNECTOR	52044-2045
	CN604	10P PLUG	KM200TA10
	CN603	11P PLUG	KM200TA11
	CN602	12P PLUG	KM200TA12

I V-AMP ASSY

SEMICONDUCTORS

	IC2201		BU4052BCF
	Q2003,Q2023,Q2043,Q2103,Q2123		2SA933S
	Q2004,Q2007,Q2024,Q2027,Q2044		2SA970
	Q2047,Q2104,Q2107,Q2124,Q2127		2SA970
	Q2252,Q2253		2SC1740S
	Q2005,Q2006,Q2025,Q2026		2SC2240
	Q2045,Q2046,Q2105,Q2106		2SC2240
	Q2125,Q2126,Q2251		2SC2240
	Q2008,Q2028,Q2048,Q2108,Q2128		2SC2878
	Q2001,Q2021,Q2041,Q2101,Q2121		FMS3
	Q2002,Q2022,Q2042,Q2102,Q2122		FMW4
	D2001,D2002,D2004,D2005		1SS355
	D2021,D2022,D2024,D2025		1SS355
	D2041,D2042,D2044,D2045		1SS355
	D2101,D2102,D2104,D2105		1SS355
	D2121,D2122,D2124,D2125		1SS355
	D2201-D2208		1SS355
	D2003,D2023,D2043,D2103,D2123		UDZS6.8B
	D2006,D2026,D2046,D2106,D2126		UDZS8.2B

CAPACITORS

	C2011,C2012,C2031,C2032		CCCSL181K2H
	C2051,C2052,C2111,C2112		CCCSL181K2H
	C2131,C2132		CCCSL181K2H
	C2009,C2029,C2049,C2109,C2129		CCCSL5R0C2H
	C2004,C2024,C2044,C2104,C2124		CCSQCH101J50
	C2002,C2022,C2042,C2102,C2122		CCSQCH221J50
	C2006,C2007,C2026,C2027		CCSQCH560J50
	C2046,C2047,C2106,C2107		CCSQCH560J50
	C2126,C2127		CCSQCH560J50
	C2001,C2021,C2041,C2101,C2121		CEAT100M50
	C2005,C2008,C2025,C2028,C2045		CEAT101M16
	C2048,C2105,C2108,C2125,C2128		CEAT101M16
	C2161,C2162		CEAT221M50
	C2252		CEAT331M10
	C2010,C2030,C2050,C2110,C2130		CEAT470M16
	C2013,C2033,C2053,C2113,C2133		CEAT470M50
	C2151-C2155		CKSQYB222K50
	C2003,C2023,C2043,C2103,C2123		CKSQYB332K50
	C2251		CKSQYF223Z50
	C2201,C2202		CKSQYF225Z16

Mark	No.	Description	Part No.

RESISTORS

	R2018,R2038,R2058,R2118,R2138		RD1/4MUF473J
⚠	R2012,R2032,R2132		RS1/10S101J
⚠	R2013,R2014,R2033,R2034		RS1/10S121J
⚠	R2053,R2054,R2113,R2114		RS1/10S121J
⚠	R2133,R2134		RS1/10S121J
	Other Resistors		RS1/10S□□□J

OTHERS

	CN2101	13P FFC CONNECTOR	52045-1345
	CN2001	22P FFC CONNECTOR	52045-2245
	CN2002	18P SOCKET	KP200TA18L

J FRONT AMP ASSY

SEMICONDUCTORS

	Q2503,Q2523,Q2543		2SA970
	Q2502,Q2522,Q2542		2SC4137
⚠	Q2501,Q2521,Q2541		IRF540A
⚠	Q2504,Q2524,Q2544		IRF9540A
	D2501-D2505,D2521-D2525		1SS133
	D2541-D2545		1SS133

CAPACITORS

	C2501,C2521,C2541		CEANPR22M50
	C2551,C2552		CEAT330M2A

RESISTORS

⚠	R2512,R2532,R2552 (0.05Ω/5W×2)		ACN7097
⚠	R2506,R2510,R2526,R2530,R2546		RD1/4PUF391J
⚠	R2550		RD1/4PUF391J
⚠	R2501,R2511,R2521,R2531,R2541		RD1/4PUF680J
⚠	R2551		RD1/4PUF680J
	VR2501,VR2521,VR2541 (470Ω)		ACP1067
	Other Resistors		RD1/4PU□□□J

OTHERS

	CN2501	18P PLUG	KM200TA18

K REAR AMP ASSY

SEMICONDUCTORS

	Q2603,Q2623		2SA970
	Q2602,Q2622		2SC4137
⚠	Q2601,Q2621		IRF540A
⚠	Q2604,Q2624		IRF9540A
	D2601-D2605,D2621-D2625		1SS133

CAPACITORS

	C2601,C2621		CEANPR22M50
	C2651,C2652		CEAT220M2A

RESISTORS

⚠	R2612,R2632 (0.05Ω/5W×2)		ACN7097
⚠	R2606,R2610,R2626,R2630		RD1/4PUF391J
⚠	R2601,R2611,R2621,R2631		RD1/4PUF680J
	VR2601,VR2621 (470Ω)		RCP1135
	Other Resistors		RD1/4PU□□□J

Mark	No.	Description	Part No.

OTHERS

	CN2601	13P FFC CONNECTOR	52045-1345
	2602	PCB BINDER	VEF1040

L SP/PS ASSY

SEMICONDUCTORS

⚠	Q3302		2SA1837
⚠	Q3301		2SC4793
	Q3304		KRA101M
	Q3005,Q3156-Q3159		KRA103M
	Q3151-Q3155,Q3303		KRC101M
	Q3305		KRC103M
	D3051,D3053,D3055,D3057,D3060		1SS133
⚠	D3001,D3002		D5SBA20
	D3309,D3310		MTZJ13C
	D3313		MTZJ16B
	D3305-D3308		MTZJ18C
⚠	D3301-D3304,D3311,D3312		S5688G

COILS

	L3101-L3105	AF CHOKE COIL	ATH1053
	L3111,L3112	BEAD FILTER	ATX1012

RELAYS

	RY3101-RY3105		ASR7026

CAPACITORS

	C3001,C3002 (22000µF/56V)		ACH7147
	C3305,C3306		CEAT101M50
	C3307,C3308		CEAT221M50
	C3118		CEAT470M50
	C3303,C3304		CEAT471M63
	C3101-C3105		CFTYA104J50
	C3111-C3117		CQHA102J2A

RESISTORS

	R3151-R3155		RD1/2PM471J
⚠	R3305,R3306		RD1/4PMF332J
	R3001,R3002		RD1/4PMF473J
⚠	R3101-R3105		RD1/4PMF4R7J
⚠	R3106-R3110		RS1LMF4R7J
⚠	R3131,R3132		RS2LMF331J
	Other Resistors		RD1/4PU□□□J

OTHERS

	3001	6P CABLE HOLDER	51048-0600
	3004	8P CABLE HOLDER	51048-0800
	CN3003	14P FFC CONNECTOR	52045-1445
	CN3101	8P SPEAKER TERMINAL	AKE7058
	CN3102	6P SPEAKER TERMINAL	AKE7060
	3013,3014,3303,3304	SCREW	BBZ30P080FZK
	CN3005,CN3010	4P PLUG	KM200TA4

M TRANS 2-1 ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC4501,IC4502 (5A)		AEK7019

CAPACITOR

Mark	No.	Description	Part No.
	C4502		CQMA333K2E

RESISTOR

Mark	No.	Description	Part No.
	R4502		RFA1/4PS220J

OTHERS

Mark	No.	Description	Part No.
	4001	6P CABLE HOLDER	51048-0600
	H4501-H4504	FUSE HOLDER	AKR7001

N REGULATOR ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC5009,IC5010 (200mA)		AEK7023
⚠	IC5004,IC5008		NJM78M05FA
⚠	IC5003		NJM78M12FA
⚠	IC5001		NJM78M15FA
⚠	IC5005,IC5007		NJM78M56FA
⚠	IC5006		NJM79M05FA
⚠	IC5002		NJM79M15FA
	D5010		1SS355
⚠	D5005,D5009		D3SBA20(B)
⚠	D5012		MTZJ6.2B
⚠	D5001-D5004		S5566G(TPB2)
	D5011		UDZS5.1B

CAPACITORS

Mark	No.	Description	Part No.
	C5015,C5017		CEAT101M10
	C5013,C5025		CEAT101M25
	C5021		CEAT221M10
	C5001,C5003,C5006		CEAT222M25
	C5002,C5004		CEAT222M35
	C5019		CEAT331M10
	C5005		CEAT332M25
	C5024		CEAT470M50
	C5023		CEAT471M10
	C5009,C5011		CEAT471M25
	C5007		CEAT472M16
	C5034		CKSQYB102K50
	C5008,C5010,C5012,C5014,C5016		CKSQYB103K50
	C5018,C5020,C5022,C5031,C5035		CKSQYB103K50
	C5030		CQMA104J50

RESISTORS

Mark	No.	Description	Part No.
	R5005		RD1/2VM1R0J
	Other Resistors		RS1/10S☐☐☐J

OTHERS

Mark	No.	Description	Part No.
	5010	4P CABLE HOLDER	51048-0400
	CN5002	14P FFC CONNECTOR	52045-1445
	CN5001	8P FFC CONNECTOR	52147-0810
	CN5005	15P PLUG	KM200TA15
	CN5004,CN5009	20P PLUG	KM200TA20
	CN5007,CN5010	4P PLUG	KM200TA4
	CN5003	6P PLUG	KM200TA6
	CN5008	7P PLUG	KM200TA7
	CN5006	9P PLUG	KM200TA9
	KN5002	EARTH METAL FITTING	VNF1084

O TRANS 2-2 ASSY

SEMICONDUCTOR

Mark	No.	Description	Part No.
⚠	IC5501 (5A)		AEK7019

CAPACITORS

Mark	No.	Description	Part No.
⚠	C5501,C5502		CQMA104J50

RESISTOR

Mark	No.	Description	Part No.
⚠	R5501		RD1/4MUF100J

OTHERS

Mark	No.	Description	Part No.
	5501	4P CABLE HOLDER	51048-0400

Q PRIMARY ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC6001		NJM78M56FA
	Q6001		KRC101M
	D6005-D6007		1SS355
⚠	D6001		S1WB(A)60SD
	D6008		UDZS5.1B

COILS

Mark	No.	Description	Part No.
⚠	L6001	LINE FILTER	ATF7018
	L6003,L6004	BEAD FILTER	ATX1012

TRANSFORMER

Mark	No.	Description	Part No.
⚠	T6001		ATT7043

RELAY

Mark	No.	Description	Part No.
⚠	RY6001		ASR7025

CAPACITORS

Mark	No.	Description	Part No.
⚠	C6002 (0.01μF/AC275V)		ACE7013
⚠	C6003 (10000pF/AC250V)		ACG7033
	C6005		CEAT102M25
	C6006		CEAT221M25
	C6015		CQMA104J50

RESISTORS

Mark	No.	Description	Part No.
⚠	R6001 (2.2MΩ, 1/2W)		RCN1080
	R6003		RD1/2VM101J
	Other Resistors		RS1/10S☐☐☐J

OTHERS

Mark	No.	Description	Part No.
	6004	AC SOCKET	AKP7136
	H6001,H6002	FUSE CLIP	AKR7001
	CN6003,CN6004	4P SOCKET	KP200TA4L
⚠	CN6002	AC CORD SOCKET	RKP1751
	6003	SCREW TERMINAL	VNE1948

R COMPONENT ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC551		LC74782M-9011
	IC501		TC74HC4053AF
	IC502,IC503		TK15420M
	Q551		DTC124EK
	D551,D552		1SS355

COILS

Mark	No.	Description	Part No.
	L552,L553		LCTA100J3225
	L551		LCTA330J3225

CAPACITORS

	C551,C559		CCSQCH101J50
	C555		CCSQCH150J50
	C556		CCSQCH180J50
	C557,C558		CCSQCH240J50
	C513-C515		CCSQCH470J50
	C501-C504,C507,C508,C552		CEAT101M10
	C562,C563		CEAT101M10
	C505,C506,C509-C512,C518		CKSQYB103K50
	C553,C554,C560,C561		CKSQYB473K50

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

	X551	CRYSTAL RESONATOR (14.31818MHz)	ASS1056
	JA501-JA503	3P PIN JACK	AKB7124
	CN501	10P SOCKET	KP200TA10L

S DISPLAY ASSY

SEMICONDUCTORS

	IC7001		PD5588A
	IC7051		TC7W53FU
	Q7051		2SA1037K
	Q7001,Q7052,Q7054		DTC124EK
	Q7053		FMA1A
	D7051-D7057		1SS355
	D7009,D7010		DAN202K

COIL

	L7001		LFA2R2J

SWITCHES

	S7001-S7003,S7007-S7023		ASG7013
	S7025-S7027,S7031-S7035		ASG7013

CAPACITORS

	C7010 (0.22µF/5.5V)		ACH7132
	C7007,C7092,C7093		CCSQCH101J50
	C7701,C7702		CEAT100M50
	C7008,C7013,C7052		CEJA101M6R3
	C7001-C7006,C7091		CKSQYB102K50
	C7051		CKSQYB103K50
	C7053		CKSQYB153K50
	C7009		CKSQYB473K50

RESISTORS

	R7044		RA15T104J
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	X7001	CERAMIC RESONATOR (7.2MHz)	ASS7018
	7006	3P CABLE HOLDER	51048-0300
	7003	4P CABLE HOLDER	51048-0400
	CN7007	4P FFC CONNECTOR	52045-0445
	CN7005	5P FFC CONNECTOR	52045-0545
	CN7002	7P FFC CONNECTOR	52045-0745
	CN7004	8P FFC CONNECTOR	52045-0845
	CN7001	32P FFC CONNECTOR	52045-3245
	V7001	FL TUBE	AAV7076
	7010	FL HOLDER	VNF1085

T VOLUME-CONT ASSY

SWITCHES

	S7103,S7104		ASG7013
	S7101		ASX7004
	S7102		ASX7036

CAPACITORS

	C7101-C7104		CKSQYB103K50

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

	CN7101	7P FFC CONNECTOR	52045-0745
	KN7101	EARTH METAL FITTING	VNF1084

U HEADPHONE ASSY

CAPACITORS

	C7304		CKSQYB103K50
	C7301,C7302		CKSQYB392K50

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

	7301	4P CABLE HOLDER	51048-0400
	JA7301	HEADPHONE JACK	RKB1014
	KN7301	EARTH METAL FITTING	VNF1084

V FRONT AV ASSY

SEMICONDUCTORS

	Q7201,Q7202		2SC2412K

CAPACITORS

	C7203,C7204		CCSQCH101J50
	C7201,C7202,C7215,C7216		CCSQCH271J50
	C7208,C7209		CEJA101M10
	C7207		CEJA1R0M50
	C7220		CKSQYB102K50
	C7210,C7217-C7219		CKSQYB103K50
	C7211		CKSQYB104K25
	C7213,C7214		CKSQYB105K10

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

	CN7201	8P FFC CONNECTOR	52044-0845
	JA7202	FRONT PIN JACK 4P	AKX7014

W STAND BY ASSY

SEMICONDUCTOR

Mark	No.	Description	Part No.
	D7501		SLR-343VR(MNP)

SWITCH

Mark	No.	Description	Part No.
	S7501		ASG7013

OTHERS

Mark	No.	Description	Part No.
	7501	3P CABLE HOLDER	51048-0300

X FRONT DIGIN ASSY

CAPACITOR

Mark	No.	Description	Part No.
	C7601		CKSQYF104Z50

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	JA7601	OPTICAL LINK IN	GP1FA551RZ
	CN7601	KR CONNECTOR	S5B-PH-K-S
	KN7601	EARTH METAL FITTING	VNF1084

Y DSP ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC9101		AK4112AVF
	IC9102		AK4527VQ
	IC9551		AK7706VT
	IC9103		CS4391
	IC9501		CS493292
	IC9201,IC9202		NJM2100M
	IC9504		PDN030A
	IC9811		PQ20WZ51
	IC9812		PQ7VZ5
	IC9552		TC551001CFT-70L
	IC9151		TC74ACT151F
	IC9152		TC74HCU04AF
	IC9505		TC74LVX244FT
	IC9502,IC9503		TC74VHC574F
	IC9506		TC74VHCT244AFT
	IC9507		TC7WU04FU
	IC9601		TC9164AF
	IC9602-IC9604,IC9701-IC9707		UPC4570G2
	Q9201,Q9202,Q9601-Q9606		2SC3326
	Q9611,Q9612		2SC3326
	Q9102,Q9104,Q9203,Q9607		DTA124EK
	Q9609,Q9610		DTA124EK
	Q9101,Q9103,Q9204,Q9608		DTC124EK
	D9601,D9602		1SS181

COILS AND FILTERS

Mark	No.	Description	Part No.
	L9501,L9551,L9801,L9802,L9807	CHIP FERRITE BEAD	ATL7002
	L9809,L9811,L9812	CHIP FERRITE BEAD	ATL7002
	F9151-F9153	CHIP BEAD	DTF1064
	L9101-L9107,L9502,L9503	CHIP SOLID INDUCTOR	QTL1013
	L9506,L9507,L9552	CHIP SOLID INDUCTOR	QTL1013

CAPACITORS

Mark	No.	Description	Part No.
	C9135		CCSQCH101J50
	C9809		CCSQCH221J50
	C9159,C9161		CCSQCH470J50
	C9154,C9156,C9518,C9564		CCSQCH471J50
	C9510,C9511		CCSRCH100D50
	C9609,C9610,C9721,C9722,C9735		CCSRCH101J50
	C9107		CCSRCH150J50
	C9106		CCSRCH180J50
	C9621,C9622,C9749-C9752		CCSRCH221J50
	C9509,C9629,C9757,C9758		CCSRCH271J50
	C9101,C9104,C9112,C9115,C9119		CCSRCH471J50
	C9122,C9503,C9505,C9507,C9513		CCSRCH471J50
	C9515,C9520,C9522,C9525,C9528		CCSRCH471J50
	C9553,C9555,C9557,C9559,C9561		CCSRCH471J50
	C9617,C9618,C9639		CCSRCH471J50
	C9201,C9202		CCSRCH560J50
	C9707,C9708		CCSRCH820J50
	C9611,C9612,C9736		CCSRCH821J50
	C9113		CEAT221M10
	C9523,C9526,C9643,C9644,C9770		CEJA100M25
	C9501,C9516,C9551,C9740		CEJA101M10
	C9801,C9802,C9812,C9814		CEJA101M10
	C9123,C9125		CEJA1R0M50
	C9127,C9529		CEJA2R2M50
	C9713,C9714,C9727,C9728,C9739		CEJA330M10
	C9753,C9754,C9765-C9769		CEJA330M10
	C9102,C9108,C9117,C9120		CEJA470M16
	C9151,C9152,C9162,C9562		CEJA470M16
	C9803,C9805		CEJA470M25
	C9203,C9204,C9206,C9207		CEJA4R7M50
	C9603,C9604,C9615,C9616		CEJA4R7M50
	C9627,C9628,C9761,C9762,C9811		CEJA4R7M50
	C9813		CEJA4R7M50
	C9110		CEJAR47M50
	C9815		CKSQYB102K50
	C9134,C9153,C9155,C9157,C9160		CKSQYB103K50
	C9517,C9563,C9816		CKSQYB103K50
	C9607,C9608,C9619,C9620		CKSQYF104Z25
	C9631,C9632,C9705,C9706		CKSQYF104Z25
	C9709-C9712,C9723-C9726		CKSQYF104Z25
	C9737,C9738,C9759,C9760,C9810		CKSQYF104Z25
	C9163-C9167		CKSQYF104Z50
	C9745,C9746,C9781,C9782		CKSRYB102K50
	C9103,C9105,C9118,C9121,C9124		CKSRYB103K50
	C9133,C9158,C9502,C9504,C9506		CKSRYB103K50
	C9508,C9512,C9514,C9519,C9521		CKSRYB103K50
	C9524,C9527,C9531,C9552,C9554		CKSRYB103K50
	C9556,C9558,C9560,C9572		CKSRYB103K50
	C9636,C9637		CKSRYB103K50
	C9109,C9114,C9116,C9126,C9626		CKSRYB104K16

Mark	No.	Description	Part No.
	C9605,C9606,C9633,C9755,C9756		CKSRYB122K50
	C9211,C9212		CKSRYB152K50
	C9703,C9704,C9715,C9716,C9729		CKSRYB182K50
	C9601,C9602,C9613,C9614,C9625		CKSRYB222K50
	C9763,C9764		CKSRYB222K50
	C9701,C9702		CKSRYB272K50
	C9732		CKSRYB333K16
	C9645		CKSRYB472K50
	C9111		CKSRYB682K50
	C9717,C9718,C9731		CKSRYB821K50
	C9205,C9208-C9210		CKSRYF104Z25
	C9730		CKSRYF104Z50

RESISTORS

	R9153,R9172,R9173,R9175,R9812		RS1/10S0R0J
	R9815		RS1/10S0R0J
	R9159,R9162,R9169-R9171		RS1/10S101J
	R9165-R9167		RS1/10S102J
	R9561,R9563-R9570,R9584		RS1/10S103J
	R9151,R9152,R9154-R9156		RS1/10S104J
	R9814,R9816		RS1/10S122J
	R9123		RS1/10S182J
	R9101		RS1/10S183J
	R9813		RS1/10S202J
	R9161,R9168		RS1/10S222J
	R9588,R9589		RS1/10S331J
	R9552,R9553,R9562		RS1/10S472J
	R9160,R9164		RS1/10S473J
	R9811		RS1/10S511J
	R9121		RS1/10S562J
	R9120,R9122		RS1/10S681J
	R9158,R9163		RS1/10S750J
	Other Resistors		RS1/16S□□□J

OTHERS

	X9101	CRYSTAL RESONATOR (24MHz)	ASS7025
	X9501	CHIP CRYSTAL (27MHz)	VSS1086
	CN9805,CN9806	20P FFC CONNECTOR	52044-2045
	JA9151	2P PIN JACK	AKB7131
	JA9153,JA9154	OPTICAL LINK IN	GP1FA551RZ
	JA9155,JA9156	OPTICAL LINK OUT	GP1FA551TZ
	CN9801	20P SOCKET	KP200TA20L
	CN9803	4P SOCKET	KP200TA4L
	CN9802	9P SOCKET	KP200TA9L
	CN9804	KR CONNECTOR	S5B-PH-K-S

6. ADJUSTMENT

■ IDLE CURRENT ADJUSTMENT

- **CAUTION** : Do not turn arround the adjustment Varriable resistors (VRs) fast !
  If you go over the adjustment specification value too much. MOS-FET may be broken.

Steps

1. Decrease the level of the Adjustment Variable resistors (VR) for the channel to be adjusted. (Turn counterclockwise.)
2. Set the power switch to ON.
3. First adjustment : Adjust VRs in following the step in table 1 and table 2.
4. Second adjustment : Adjust VRs in following the step in table 1 and table 2 that depends on aging time.

Table 1

Step No.	Adjustment Channel	Adjustment Point	Measurement Point
①	SL ch	VR2601	Between W441 and W443
②	SR ch	VR2621	Between W432 and W433
③	FL ch	VR2501	Between two terminal of 2511
④	C ch	VR2541	Between two terminal of 2551
⑤	FR ch	VR2521	Between two terminal of 2531

Table 2

	Adjustment Time	Adjustment Value
First adjustment	00 : 00 - 01 : 30	16.6mV ± 10% (16.6mV ± 1.6mV)
Second adjustment	07 : 00 - 08 : 59	8.2mV ± 10% (8.2mV ± 0.8mV)
	09 : 00 - 11 : 59	7.5mV ± 0.5mV
	12 : 00 - 14 : 59	7.0mV ± 0.5mV
	15 : 00 -	7.0mV ± 0.5mV

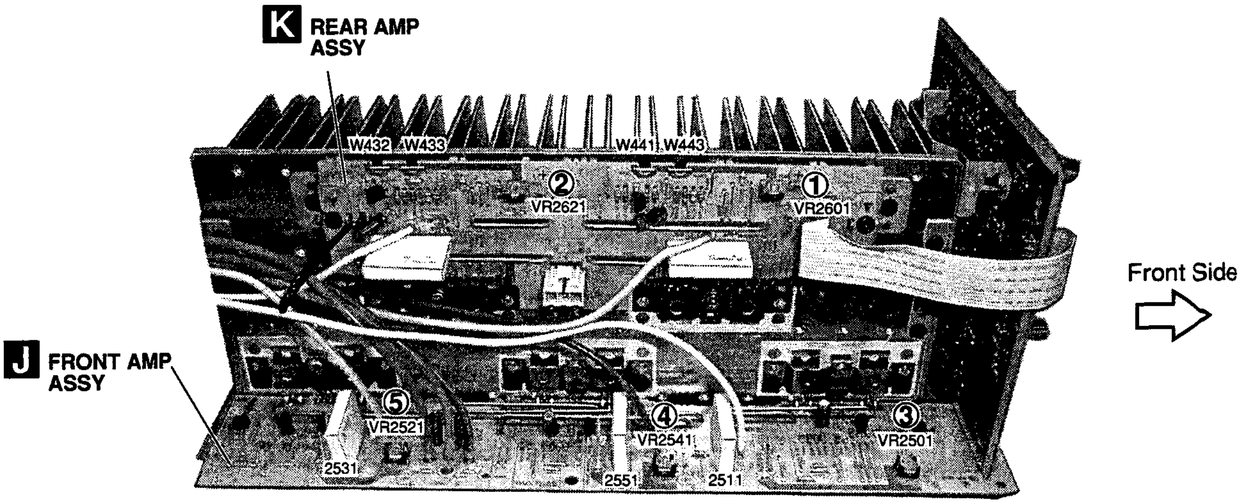
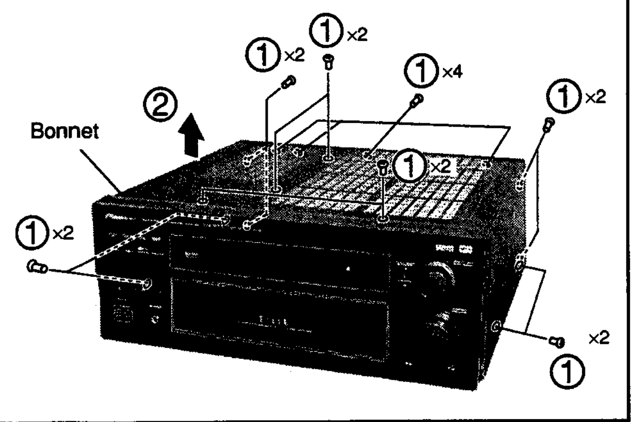

K REAR AMP ASSY
W432
W433
W441
W443
②
VR2621
①
VR2601
Front Side
J FRONT AMP ASSY
⑤
VR2521
2531
④
VR2541
2551
2511
③
VR2501

Fig.1 Adjustment Points

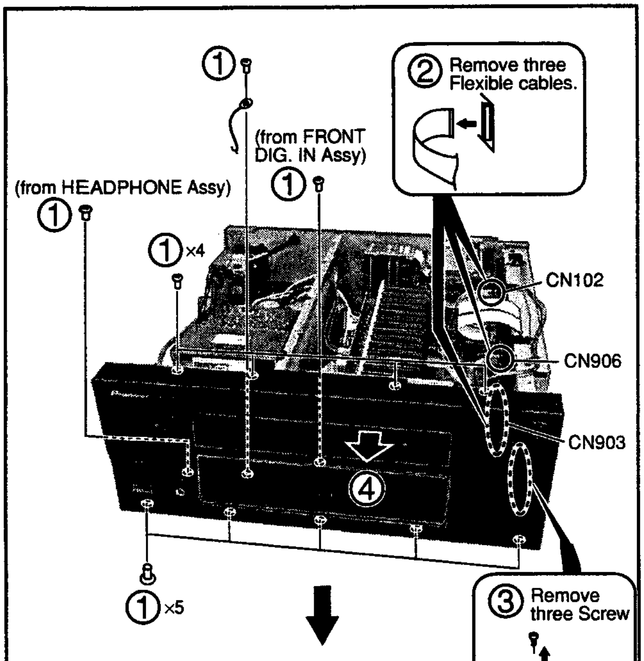
7. GENERAL INFORMATION

7.1 DISASSEMBLY

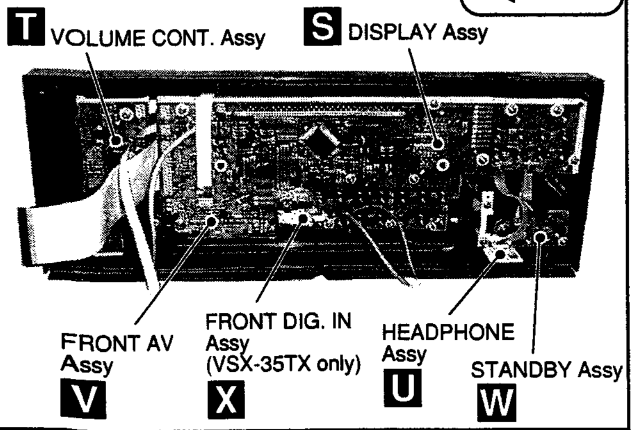
■Bonnet


①×2
①×2
①×4
①×2
Bonnet
②
①×2
①×2
×2
①

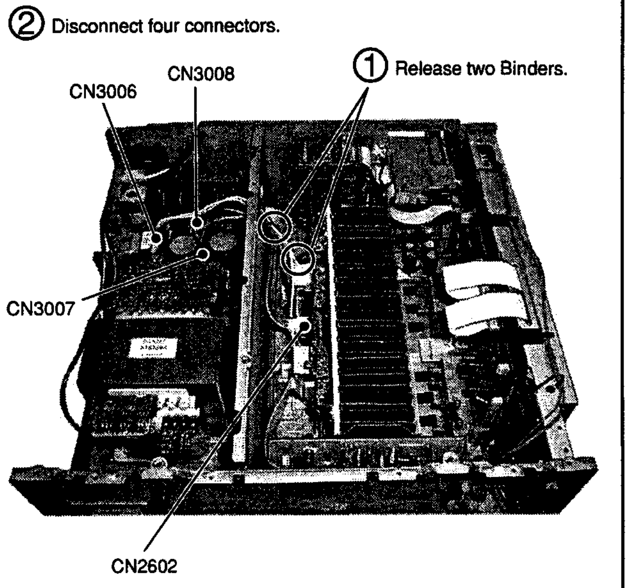
■Front Panel Section

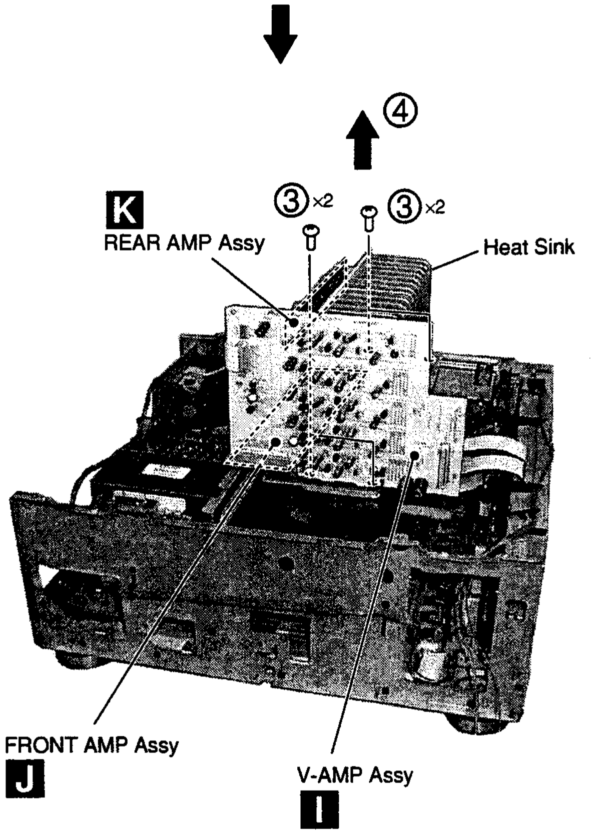

①
② Remove three Flexible cables.
(from FRONT DIG. IN Assy)
(from HEADPHONE Assy)
①
①
①×4
CN102
CN906
CN903
④
①×5
③ Remove three Screw
SE Angle

• **PCB Location (Front Panel Section)**

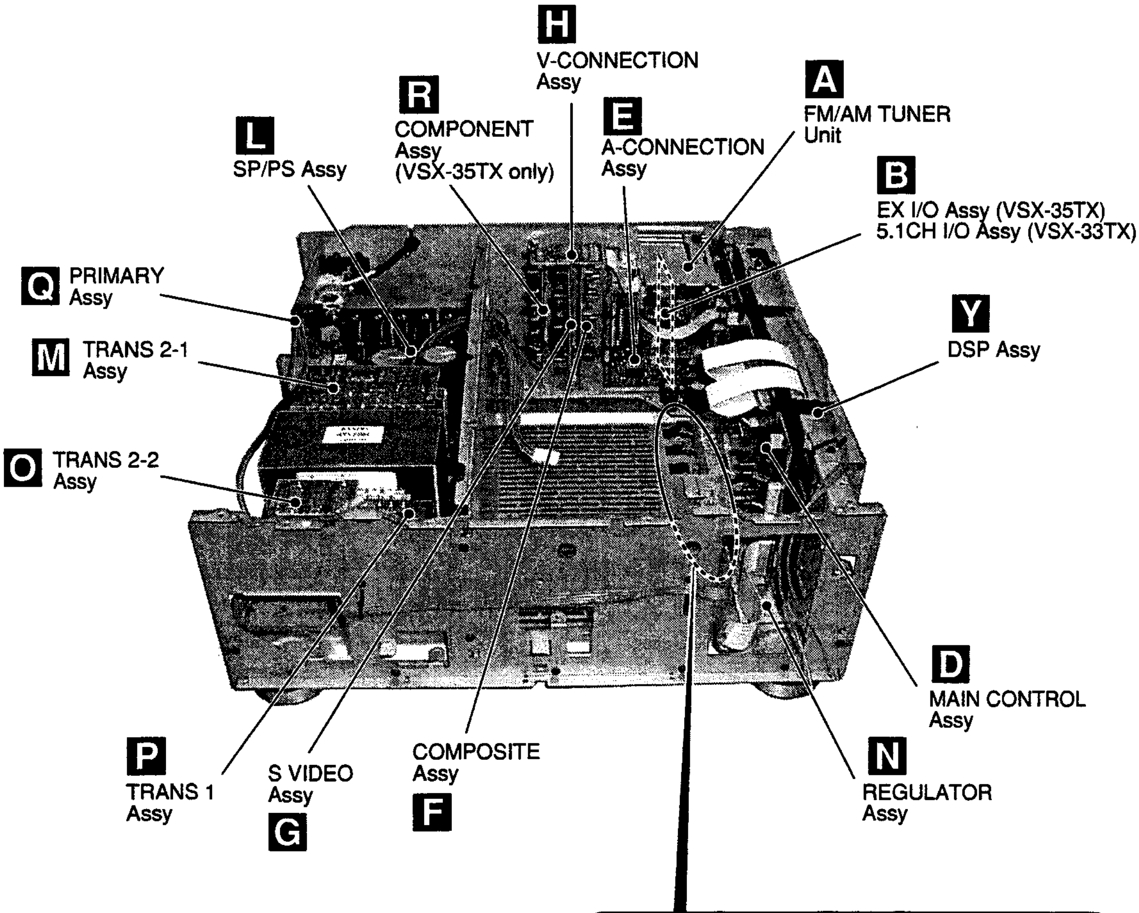

T VOLUME CONT. Assy
S DISPLAY Assy
FRONT AV Assy
V
FRONT DIG. IN Assy (VSX-35TX only)
X
HEADPHONE Assy
U
STANDBY Assy
W

■Heat Sink Section

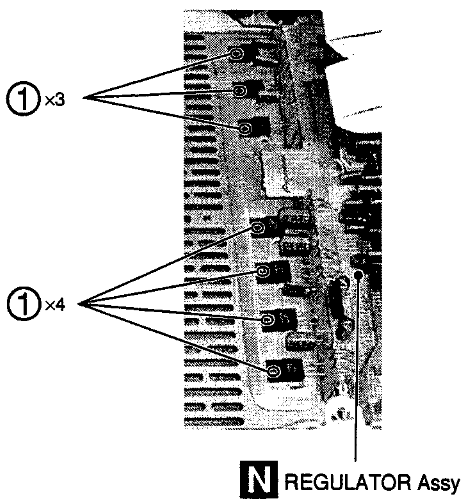

② Disconnect four connectors.
CN3008
CN3006
① Release two Binders.
CN3007
CN2602


④
K
REAR AMP Assy
③×2
③×2
Heat Sink
FRONT AMP Assy
J
V-AMP Assy
I

■ PCB Location


H
V-CONNECTION Assy
R
COMPONENT Assy (VSX-35TX only)
L
SP/PS Assy
E
A-CONNECTION Assy
A
FM/AM TUNER Unit
B
EX I/O Assy (VSX-35TX)
5.1CH I/O Assy (VSX-33TX)
Q
PRIMARY Assy
M
TRANS 2-1 Assy
O
TRANS 2-2 Assy
Y
DSP Assy
D
MAIN CONTROL Assy
P
TRANS 1 Assy
S VIDEO Assy
G
COMPOSITE Assy
F
N
REGULATOR Assy

Replace the Regulator IC.


①×3
①×4
N
REGULATOR Assy

7.2 PARTS

7.2.1 IC

- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

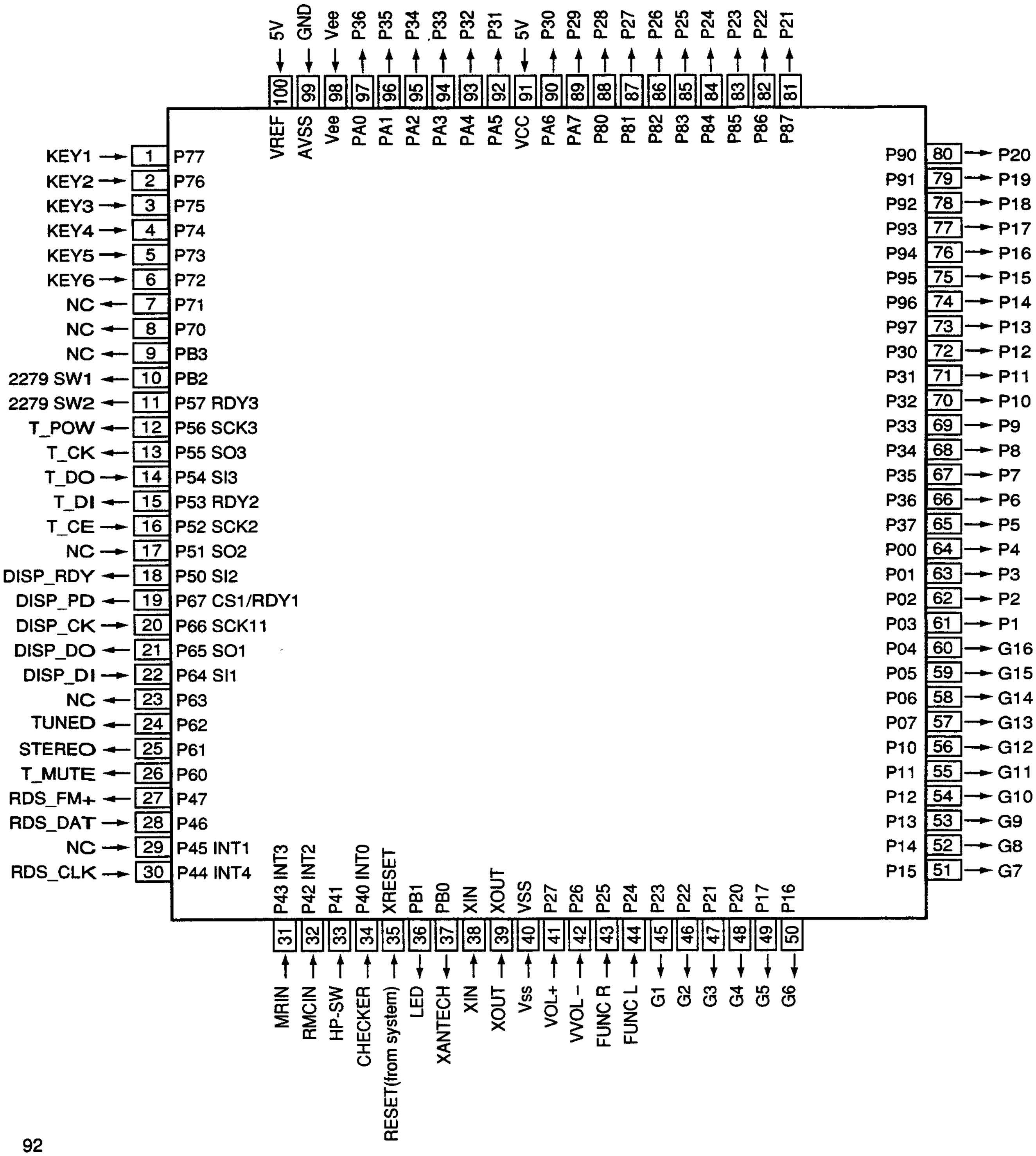
•List of IC

PD5588A, PD5587A

■ PD5588A (DISPLAY ASSY : IC7001)

- **Display Control IC**

- **Pin Assignment (Top View)**


100 VREF 5V
99 AVSS GND
98 Vee Vee
97 PA0 P36
96 PA1 P35
95 PA2 P34
94 PA3 P33
93 PA4 P32
92 PA5 P31
91 VCC 5V
90 PA6 P30
89 PA7 P29
88 P80 P28
87 P81 P27
86 P82 P26
85 P83 P25
84 P84 P24
83 P85 P23
82 P86 P22
81 P87 P21
KEY1 1 P77
KEY2 2 P76
KEY3 3 P75
KEY4 4 P74
KEY5 5 P73
KEY6 6 P72
NC 7 P71
NC 8 P70
NC 9 PB3
2279 SW1 10 PB2
2279 SW2 11 P57 RDY3
T_POW 12 P56 SCK3
T_CK 13 P55 SO3
T_DO 14 P54 SI3
T_DI 15 P53 RDY2
T_CE 16 P52 SCK2
NC 17 P51 SO2
DISP_RDY 18 P50 SI2
DISP_PD 19 P67 CS1/RDY1
DISP_CK 20 P66 SCK11
DISP_DO 21 P65 SO1
DISP_DI 22 P64 SI1
NC 23 P63
TUNED 24 P62
STEREO 25 P61
T_MUTE 26 P60
RDS_FM+ 27 P47
RDS_DAT 28 P46
NC 29 P45 INT1
RDS_CLK 30 P44 INT4
31 P43 INT3 MRIN
32 P42 INT2 RMCIN
33 P41 HP-SW
34 P40 INT0 CHECKER
35 XRESET RESET(from system)
36 PB1 LED
37 PB0 XANTECH
38 XIN XIN
39 XOUT XOUT
40 VSS Vss
41 P27 VOL+
42 P26 VVOL –
43 P25 FUNC R
44 P24 FUNC L
45 P23 G1
46 P22 G2
47 P21 G3
48 P20 G4
49 P17 G5
50 P16 G6
P90 80 P20
P91 79 P19
P92 78 P18
P93 77 P17
P94 76 P16
P95 75 P15
P96 74 P14
P97 73 P13
P30 72 P12
P31 71 P11
P32 70 P10
P33 69 P9
P34 68 P8
P35 67 P7
P36 66 P6
P37 65 P5
P00 64 P4
P01 63 P3
P02 62 P2
P03 61 P1
P04 60 G16
P05 59 G15
P06 58 G14
P07 57 G13
P10 56 G12
P11 55 G11
P12 54 G10
P13 53 G9
P14 52 G8
P15 51 G7

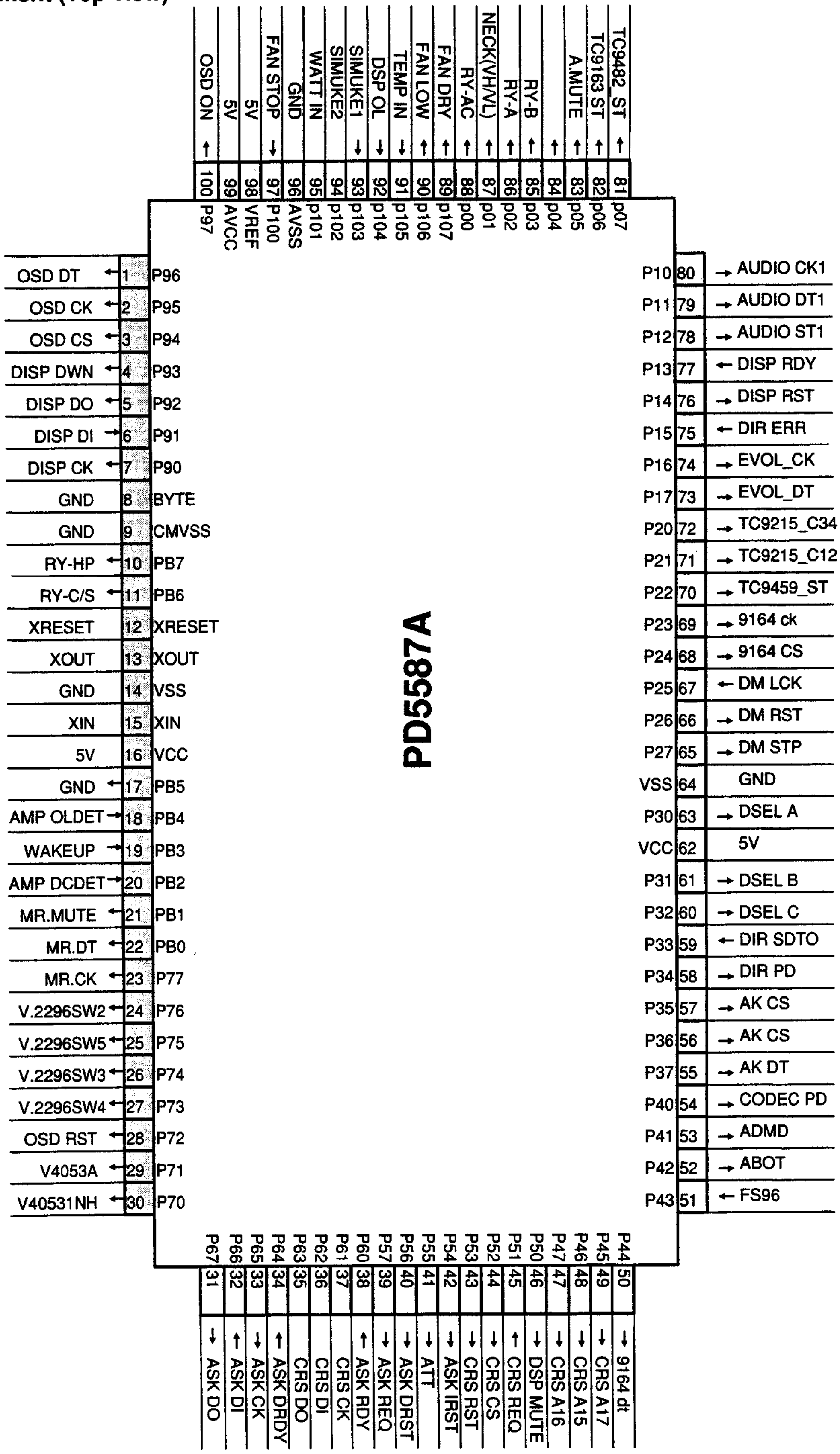
- **Pin Function**

No.	Pin Name	I/O	Function	No.	Pin Name	I/O	Function
1	KEY 1	I	Key scan input 1	51	G7	O	Grid output 7
2	KEY 2	I	Key scan input 2	52	G8	O	Grid output 8
3	KEY 3	I	Key scan input 3	53	G9	O	Grid output 9
4	KEY 4	I	Key scan input 4	54	G10	O	Grid output 10
5	KEY 5	I	Key scan input 5	55	G11	O	Grid output 11
6	KEY 6	I	Key scan input 6	56	G12	O	Grid output 12
7	NC	O	Open	57	G13	O	Grid output 13
8	NC	O	Open	58	G14	O	Grid output 14
9	NC	O	Open	59	G15	O	Grid output 15
10	2279 SW1	O	Control for NJM2279	60	G16	O	Grid output 16
11	2279 SW2	O	Control for NJM2279	61	S1	O	Segment output 1
12	T-POW	O	Tuner power down	62	S2	O	Segment output 2
13	T-CK	O	Clock for tuner module	63	S3	O	Segment output 3
14	T-DO	I	Data from tuner module	64	S4	O	Segment output 4
15	T-DI	O	Data for tuner module	65	S5	O	Segment output 5
16	T-CE	O	Chip enable for tuner module	66	S6	O	Segment output 6
17	NC	I	Open	67	S7	O	Segment output 7
18	DISP RDY	O	Data request for IC901 MAIN U-COM	68	S8	O	Segment output 8
19	DISP PD	O	Display u-com power dowen	69	S9	O	Segment output 9
20	DISP CK	I	Clock from IC901 MAIN U-COM	70	S10	O	Segment output 10
21	DISP DO	O	Data for IC901 MAIN U-COM	71	S11	O	Segment output 11
22	DISP DI	I	Data from IC901 MAIN U-COM	72	S12	O	Segment output 12
23	NC	O	Open	73	S13	O	Segment output 13
24	TUNED	I	Tuned data from tuner module	74	S14	O	Segment output 14
25	STEREO	I	Stereo tuned data from tuner module	75	S15	O	Segment output 15
26	T-MUTE	O	Tuner mute ON/OFF	76	S16	O	Segment output 16
27	RDS FM+	–	VDD for IC7401 BU1923 (RDS model only)	77	S17	O	Segment output 17
28	RDS DAT	O	Data for IC7401 BU1923 (RDS model only)	78	S18	O	Segment output 18
29	NC	I	(pull-up)	79	S19	O	Segment output 19
30	RDS CLK	I	Clock for IC7401 BU1923 (RDS model only)	80	S20	O	Segment output 20
31	MR IN	I	Sub room remote control (MR&S, MR model only)	81	S21	O	Segment output 21
32	RMC IN	I	Remote control	82	S22	O	Segment output 22
33	HP-SW	I	Headphone connect detect	83	S23	O	Segment output 23
34	CHECKER	I	For unit check test mode detection	84	S24	O	Segment output 24
35	COM-RESET	I	Reset	85	S25	O	Segment output 25
36	LED	O	Standby LED	86	S26	O	Segment output 26
37	XANTECH	O	XANTECH ON/OFF	87	S27	O	Segment output 27
38	XIN	–	Connect a 7.2MHz oscillator	88	S28	O	Segment output 28
39	XOUT	–		89	S29	O	Segment output 29
40	VSS	–	GND	90	S30	O	Segment output 30
41	VOL+	I	Rotary encoder signal +	91	VDD	–	Power supply +5V
42	VOL-	I	Rotary encoder signal -	92	S31	O	Segment output 31
43	FUNC/R	I	Rotary encoder signal R	93	S32	O	Segment output 32
44	FUNC/L	I	Rotary encoder signal L	94	S33	O	Segment output 33
45	G1	O	Grid output 1	95	S34	O	Segment output 34
46	G2	O	Grid output 2	96	S35	O	Segment output 35
47	G3	O	Grid output 3	97	S36	O	Segment output 36
48	G4	O	Grid output 4	98	VEE	–	Power supply 5V
49	G5	O	Grid output 5	99	AVSS	–	GND
50	G6	O	Grid output 6	100	VREF	–	Reference voltage 5V

■ PD5587A (MAIN CONTROL ASSY : IC901)

- **Main Control IC**

● Pin Assignment (Top View)


PD5587A
OSD ON ↑ 100 P97
5V 99 AVCC
5V 98 VREF
FAN STOP ↓ 97 P100
GND 96 AVSS
WATT IN 95 p101
SIMUKE2 94 p102
SIMUKE1 ↓ 93 p103
DSP OL ↓ 92 p104
TEMP IN ↓ 91 p105
FAN LOW ↑ 90 p106
FAN DRY ↑ 89 p107
RY-AC ↑ 88 p00
NECK(VH/VL) ↑ 87 p01
RY-A ↑ 86 p02
RY-B ↑ 85 p03
↑ 84 p04
A.MUTE ↑ 83 p05
TC9163 ST ↑ 82 p06
TC9482 ST ↑ 81 p07
OSD DT ← 1 P96
OSD CK ← 2 P95
OSD CS ← 3 P94
DISP DWN ← 4 P93
DISP DO ← 5 P92
DISP DI → 6 P91
DISP CK ← 7 P90
GND 8 BYTE
GND 9 CMVSS
RY-HP ← 10 PB7
RY-C/S ← 11 PB6
XRESET 12 XRESET
XOUT 13 XOUT
GND 14 VSS
XIN 15 XIN
5V 16 VCC
GND ← 17 PB5
AMP OLDET → 18 PB4
WAKEUP → 19 PB3
AMP DCDET → 20 PB2
MR.MUTE ← 21 PB1
MR.DT ← 22 PB0
MR.CK ← 23 P77
V.2296SW2 ← 24 P76
V.2296SW5 ← 25 P75
V.2296SW3 ← 26 P74
V.2296SW4 ← 27 P73
OSD RST ← 28 P72
V4053A ← 29 P71
V40531NH ← 30 P70
P10 80 → AUDIO CK1
P11 79 → AUDIO DT1
P12 78 → AUDIO ST1
P13 77 ← DISP RDY
P14 76 → DISP RST
P15 75 ← DIR ERR
P16 74 → EVOL_CK
P17 73 → EVOL_DT
P20 72 → TC9215_C34
P21 71 → TC9215_C12
P22 70 → TC9459_ST
P23 69 → 9164 ck
P24 68 → 9164 CS
P25 67 ← DM LCK
P26 66 → DM RST
P27 65 → DM STP
VSS 64 GND
P30 63 → DSEL A
VCC 62 5V
P31 61 → DSEL B
P32 60 → DSEL C
P33 59 ← DIR SDTO
P34 58 → DIR PD
P35 57 → AK CS
P36 56 → AK CS
P37 55 → AK DT
P40 54 → CODEC PD
P41 53 → ADMD
P42 52 → ABOT
P43 51 ← FS96
P67 31 ↓ ASK DO
P66 32 ↑ ASK DI
P65 33 ↓ ASK CK
P64 34 ↑ ASK DRDY
P63 35 CRS DO
P62 36 CRS DI
P61 37 CRS CK
P60 38 ↑ ASK RDY
P57 39 ↓ ASK REQ
P56 40 ↓ ASK DRST
P55 41 ↓ ATT
P54 42 ↓ ASK IRST
P53 43 ↓ CRS RST
P52 44 ↓ CRS CS
P51 45 ↑ CRS REQ
P50 46 ↓ DSP MUTE
P47 47 ↓ CRS A16
P46 48 ↓ CRS A15
P45 49 ↓ CRS A17
P44 50 ↓ 9164 dt

- **Pin Function**

No.	Pin Name	I/O	Function	No.	Pin Name	I/O	Function
1	OSD DT	O	Data for IC752 LC74782M-9011	41	ATT	O	Audio attenuator
2	OSD CK	O	Clock for IC752 LC74782M-9011	42	ASK IRST	O	for AK7706 Hard reset
3	OSD CS	O	Chip select for IC752 LC74782M-9011	43	CRS RST	O	Reset for CS49329
4	DISP DWN	O	Reset for IC9501 DSP U-COM	44	CRS CS	O	Chip select for CS49329
5	DISP DO	I	Data from IC7001 DISP U-COM	45	CRS REQ	I	Data for CS49329
6	DISP DI	O	Data for IC7001 DISP U-COM	46	DSP MUTE	O	Mute request from DSP U-COM
7	DISP CK	O	Clock for IC7001 DISP U-COM	47	CRS A16	O	Control for PDN030A
8	GND	–	GND	48	CRS A15	O	Control for PDN030A
9	GND	–	GND	49	CRS A17	O	Control for PDN030A
10	RY-HP	O	Headphone relay ON/OFF	50	9164DT	O	Data from TC9164
11	RY-C/S	O	SP C/S relay ON/OFF	51	FS96	I	96k Hz detect
12	XRESET	I	Reset	52	ABOT	O	Boot signal
13	XOUT	O	Connect a 4.19MHz oscillator	53	ADMD	O	Audio preout mute ON/OFF
14	GND	–		54	CODEC PD	O	CODEC Power down
15	XIN	I		55	AK DT	O	Data from CODEC
16	VDD	–	Power supply +5V	56	AK CK	O	Control for CODEC
17	GND	–	GND	57	AK CS	O	Chip select for CODEC
18	AMP OLDET	O	Amp Overload detect	58	DIR PD	O	DIR Power down
19	WAKEUP	I	AC pulse input	59	DIR SDTO	O	DIR data for output
20	AMP DCDET	O	Amp D.C. detect	60	DSEL C	O	Control for TC74ACT151F
21	MR MUTE	O	Audio mute ON/OFF for sub room (MR&S, MR model only)	61	DSEL B	O	Control for TC74ACT151F
22	MR-V DT	O	Data for IC110 M62429FP control (MR&S model only)	62	Vdd	–	Power supply +5V
23	MR-V CK	O	Clock for IC110 M62429FP control (MR&S model only)	63	DSEL A	O	Control for TC74ACT151F
24	V.2296SW2	O	Control for IC701, 801, 802 NJM2296M	64	GND	–	GND
25	V.2296SW5	O	Control for IC701, 801, 802 NJM2296M	65	DM STP	O	Data for Demodureter
26	V.2296SW3	O	Control for IC701, 801, 802 NJM2296M	66	DM RST	O	Reset for Demodureter
27	V.2296SW4	O	Control for IC701, 801, 802 NJM2296M	67	DM LCK	O	Clock for Demodureter
28	OSD RST	O	Reset for IC752 LC74782M-9011	68	9164 CS	O	Chip select for TC9164
29	V4053A	O	Control for TC74HC4053 (Nch Open Drain)	69	9164 CK	O	Clock for TC9164
30	V4053INH	O	Inhibit for TC74HC4053 (Nch Open Drain)	70	TC4959_ST	O	Strobe for TC4959
31	ASK DO	I	Data from AK7706	71	TC9215_C-12	O	Control for TC9215
32	ASK DI	O	Data for AK7706 Input signal	72	TC9215_C-34	O	Control for TC9215
33	ASK CK	O	Clock for AK7706	73	EVOL_DT	O	Data for Electr Volume
34	ASK DRDY	O	Data ready from AK7706	74	EVOL_CK	O	Clock for Electr Volume
35	CRS DO	I	Data from CS49329	75	DIR ERR	I	DIR Error detect
36	CRS DI	O	Data for CS49329 Input signal	76	DISP RST	O	Reset for IC7001 DISP U-COM
37	CRS CK	O	Clock for CS49329	77	DISP RDY	I	Data request from IC7001 DISP U-COM
38	ASK RDY	I	Data request from AK7706	78	AUDIO ST1	O	Strobe for TC9274F,TC9164,TC9163
39	ASK REQ	O	Chip select for AK7706	79	AUDIO DT1	O	Data for TC9274F,TC9164,TC9163
40	ASK DRST	O	for AK7706 Soft reset	80	AUDIO CK1	O	Clock for TC9274F,TC9164,TC9163

- **Pin Function**

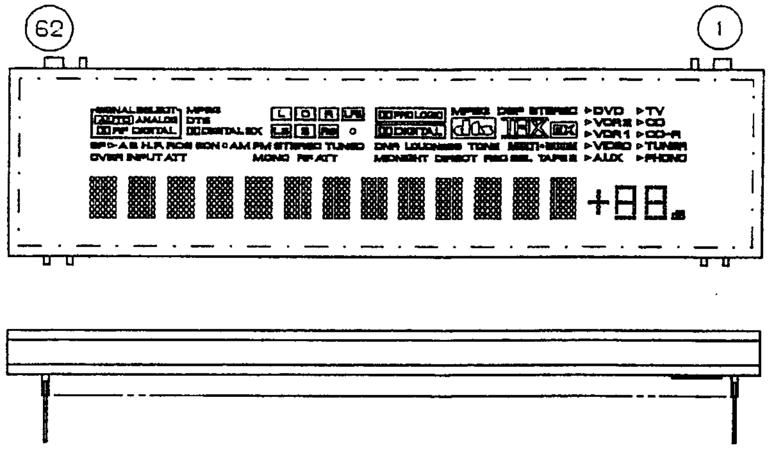
No.	Pin Name	I/O	Function	No.	Pin Name	I/O	Function
81	TC9482ST	O	Strobe for IC108 TC9482N control	91	TEMP IN	O	O/open (KU,J,SD), I/Fan temperature A/D input (other)
82	TC9163ST	O	Strobe for IC107 TC9163F control	92	DSP OL	I	DSP overload detect, A/D input
83	A MUTE	O	Audio mute ON/OFF	93	SIMUKE 1	I	SIMUKE (pull-up or down)
84	NC	O	Open	94	SIMUKE 2	I	SIMUKE (pull-up or down)
85	RY-B	O	SP B relay ON/OFF	95	WATT IN	I/O	O/Open (KU,J,SD), I/Fan wattage input, A/D input (other)
86	RY-A	O	SP A relay ON/OFF	96	GND	–	GND
87	NECK(VH/-VL)	O	Neck ON/OFF (24,26,908,938 only)	97	FAN STOP	I/O	O/Open (KU,J,SD), I/Fan stop detecter (other)
88	RY-AC	O	AC relay ON/OFF	98	5V	–	Power supply +5V
89	FAN DRIVE	O	Open (KU,J,SD), Fan drive (other)	99	5V	–	Power supply +5V
90	FAN LOW	O	Open (KU,J,SD), Fan low (other)	100	OSD ON	O	Control for IC102 BU4053BCF, TC4W53FU (MR&S model only)

7.2.2 DISPLAY

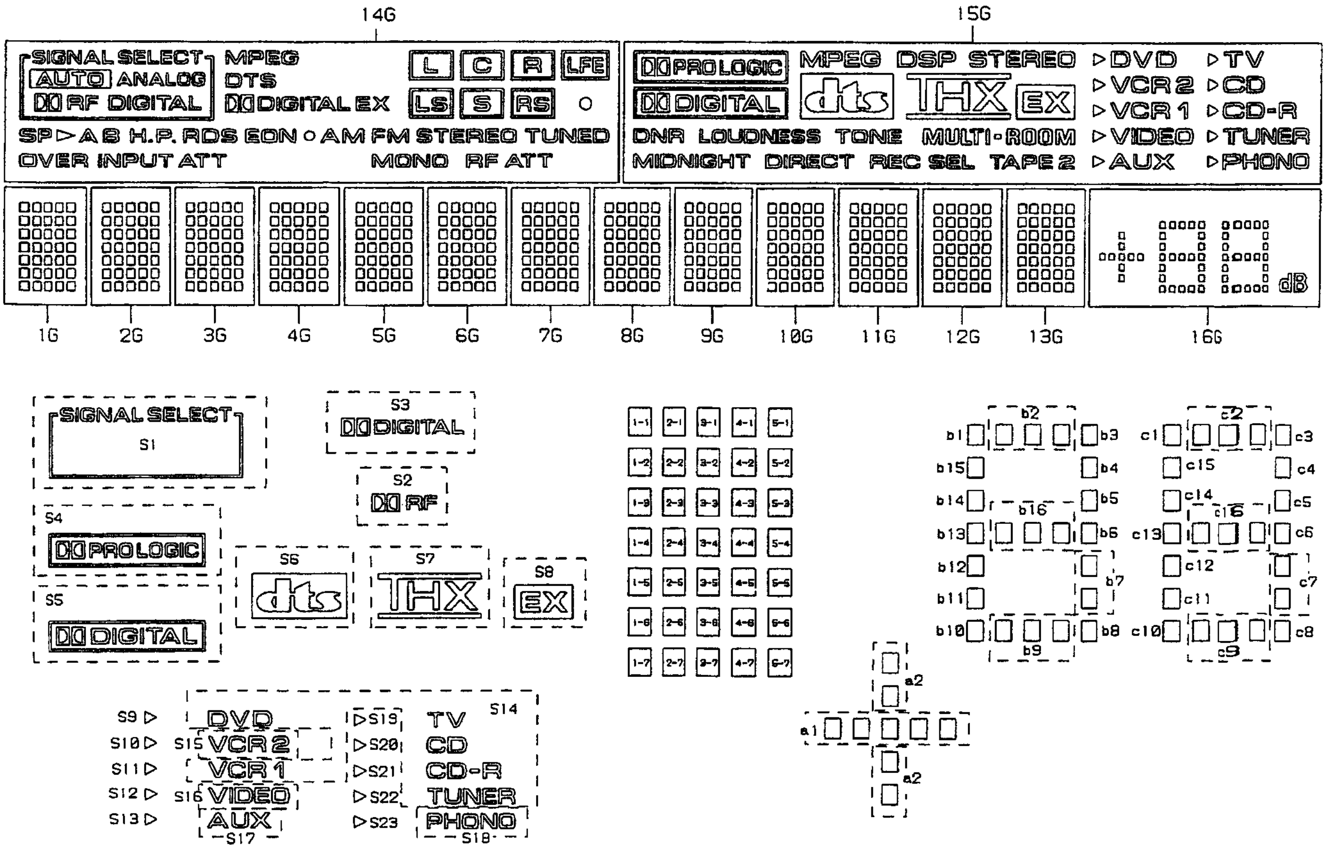
■ AAV7076 (DISPLAY ASSY :V7001)

- **FL Indicator Tube**

- **Pin Assignment**


62
1
SIGNAL SELECT AUTO ANALOG RF DIGITAL MPEG DTS DIGITAL EX L C R LFE LS S RS PRO LOGIC DIGITAL dts THX EX MPEG DSP STEREO DVD VCR2 VCR1 VIDEO AUX TV CD CD-R TUNER PHONO
+88 dB

- **Grid Assignment**


14G
15G
SIGNAL SELECT
AUTO
ANALOG
RF DIGITAL
MPEG
DTS
DIGITAL EX
L
C
R
LFE
LS
S
RS
SP ▷ A B H.P. RDS EON ○ AM FM STEREO TUNED
OVER INPUT ATT
MONO RF ATT
PRO LOGIC
DIGITAL
dts
THX
EX
MPEG DSP STEREO
DNR LOUDNESS TONE MULTI-ROOM
MIDNIGHT DIRECT REC SEL TAPE 2
▷DVD ▷TV
▷VCR 2 ▷CD
▷VCR 1 ▷CD-R
▷VIDEO ▷TUNER
▷AUX ▷PHONO
dB
1G
2G
3G
4G
5G
6G
7G
8G
9G
10G
11G
12G
13G
16G
S1
S2
S3
S4
S5
S6
S7
S8
S9 ▷
S10 ▷
S11 ▷
S12 ▷
S13 ▷
S14
S15
S16
S17
S18
▷S19
▷S20
▷S21
▷S22
▷S23
1-1 2-1 3-1 4-1 5-1
1-2 2-2 3-2 4-2 5-2
1-3 2-3 3-3 4-3 5-3
1-4 2-4 3-4 4-4 5-4
1-5 2-5 3-5 4-5 5-5
1-6 2-6 3-6 4-6 5-6
1-7 2-7 3-7 4-7 5-7
a1
a2
b1 b2 b3 b4 b5 b6 b7 b8 b9 b10 b11 b12 b13 b14 b15 b16
c1 c2 c3 c4 c5 c6 c7 c8 c9 c10 c11 c12 c13 c14 c15 c16

• Anode Connection

	1G-13G	14G	15G	16G
P1	1-1	AM	MIDNIGHT	a1
P2	2-1	FM	DIRECT	a2
P3	3-1	L	REC	b1
P4	4-1	C	SEL	b2
P5	5-1	R	TAPE 2	b3
P6	1-2	LFE	DNR	b15
P7	2-2	LS	LOUDNESS	b4
P8	3-2	S	TONE	b14
P9	4-2	RS	MULTI·ROOM	b5
P10	5-2	MONO	S5	b13
P11	1-3	STEREO	S6	b16
P12	2-3	RF ATT	S7	b6
P13	3-3	TUNED	S8	b12
P14	4-3	○	S4	b7
P15	5-3	OVER	MPEG	b11
P16	1-4	INPUT	DSP	b10
P17	2-4	ATT	STEREO	b9
P18	3-4	(EON)○	S13	b8
P19	4-4	EON	S12	c1
P20	5-4	RDS	S11	c2
P21	1-5	SP ▷	S10	c3
P22	2-5	A	S9	c15
P23	3-5	B	S17	c4
P24	4-5	H.P.	S16	c14
P25	5-5	EX	S15	c5
P26	1-6	S3	S14	c13
P27	2-6	DTS	S23	c16
P28	3-6	MPEG	S22	c6
P29	4-6	S1	S21	c12
P30	5-6	S2	S20	c7
P31	1-7	DIGITAL	S19	c11
P32	2-7	AUTO	S18	c10
P33	3-7	ANALOG	-	c9
P34	4-7	-	-	c8
P35	5-7	-	-	dB

PIN CONNECTION

PIN NO.	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26
CONNECTION	9G	10G	11G	12G	13G	14G	15G	16G	NC	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16

PIN NO.	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	NC	NC	NP	NP	F1	F1

PIN NO.	62	61	60	59	58	57	56	55	54	53	52	51
CONNECTION	F2	F2	NP	NP	1G	2G	3G	4G	5G	6G	7G	8G

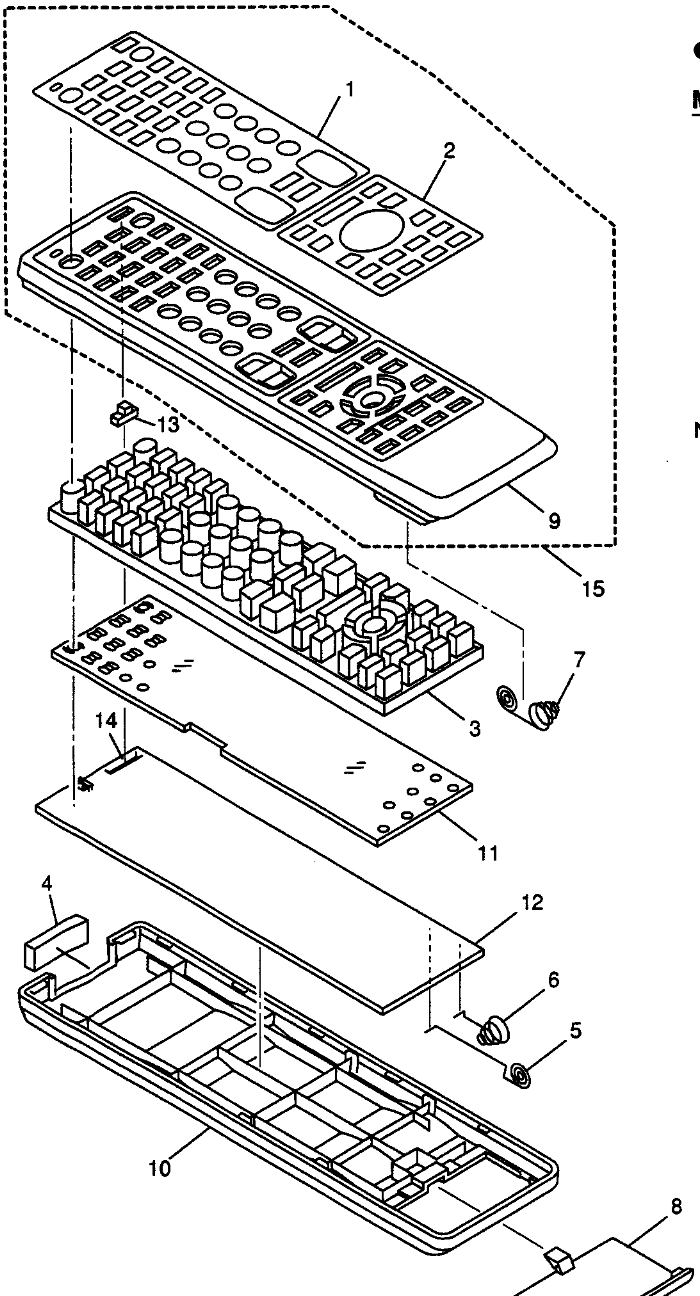
NOTE : F1, F2 : Filament G1 to G15 : Grid NC : No Connection NP: No Pin DL : Datum Line

7.3 REMOTE CONTROL UNIT

7.3.1 AXD7266 (Remote Control 35)

7.3.1.1 EXPLODED VIEWS AND PARTS LIST

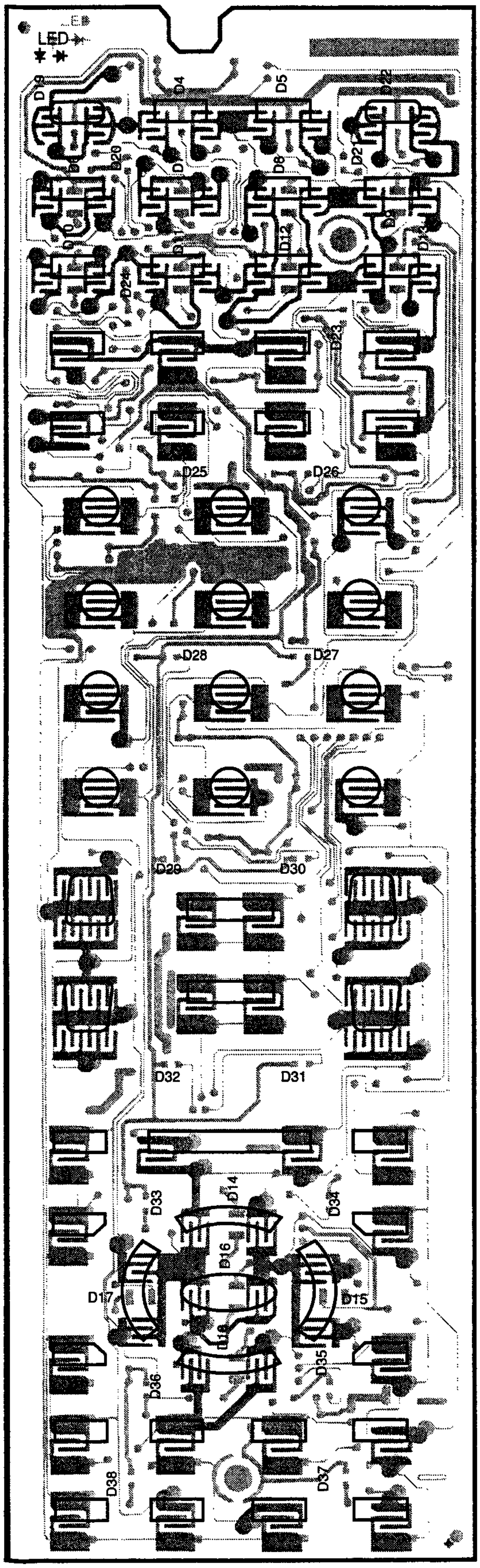
NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on the product are used for disassembly.*



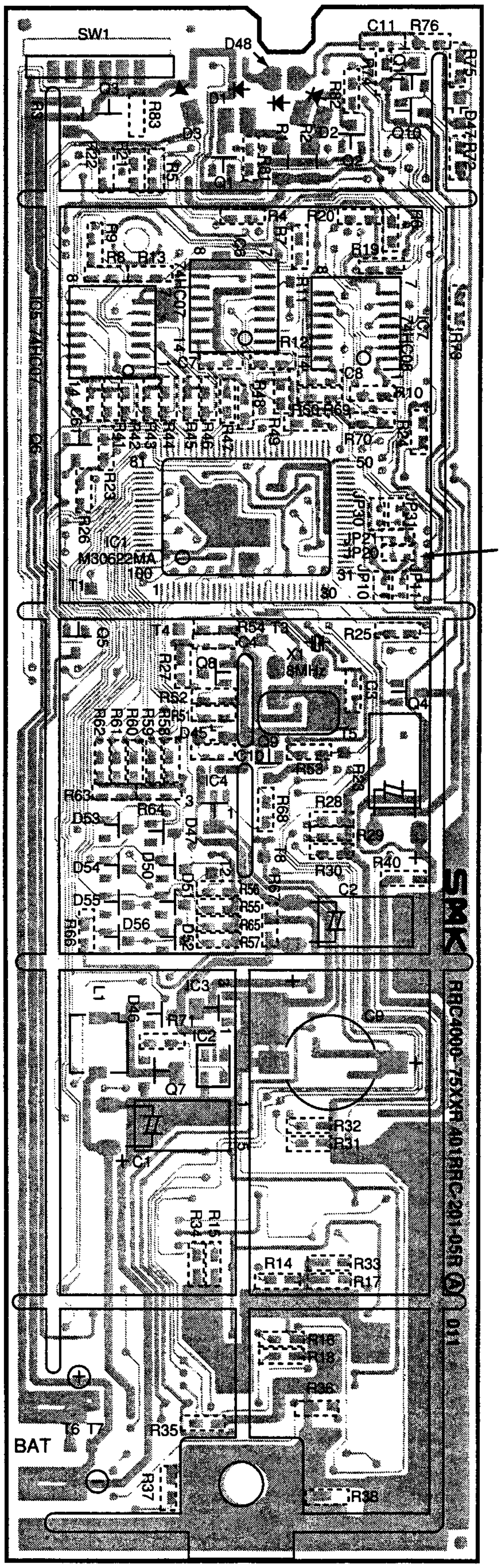
• PARTS LIST

Mark	No.	Description	Part No.
	1	Name Plate A	AZA7380
	2	Name Plate B (AXD7266)	AZA7396
	3	Rubber Sheet (AXD7266)	AZA7397
	4	Filter	AZA7340
	5	Terminal A (+)	AZB7141
	6	Terminal B (-)	AZB7142
	7	Spring	AZB7143
	8	Battery Cover	AZN7841
	9	Case (A)	AZN7832
	10	Case (B)	AZN7781
NSP	11	Illumi Plate	AZN7782
	12	PCB	AZW7260
	13	Knob	AZA7398
	14	Slide Switch	AZS7036
	15	Case A assy : 7266	AZN7864

7.3.2.2 PCB DIAGRAM


LED
D19
D4
D5
D22
D20
D8
D21
D10
D12
D24
D23
D25
D26
D28
D27
D29
D30
D32
D31
D33
D14
D34
D16
D17
D15
D18
D35
D36
D38
D37

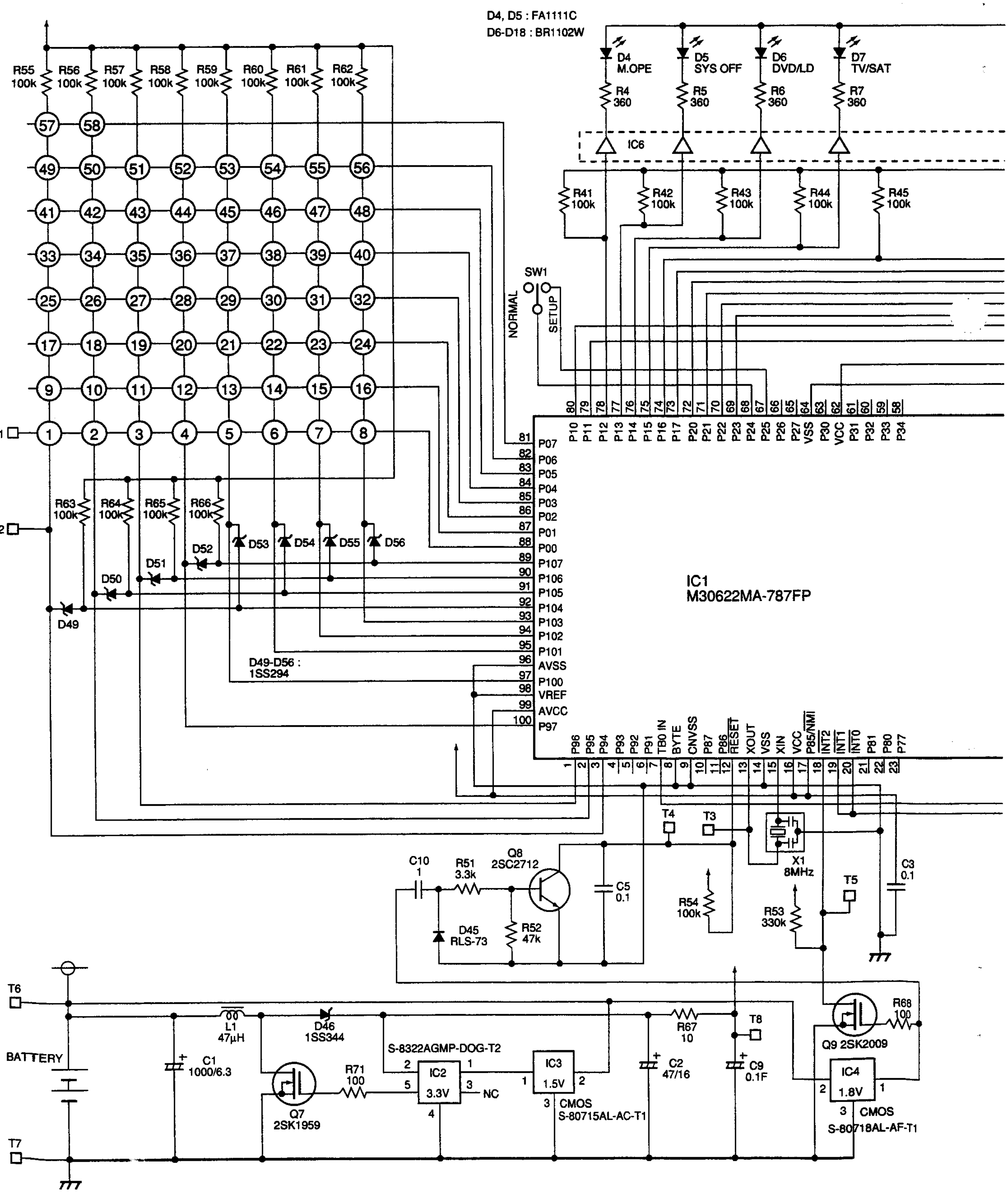
SIDE A

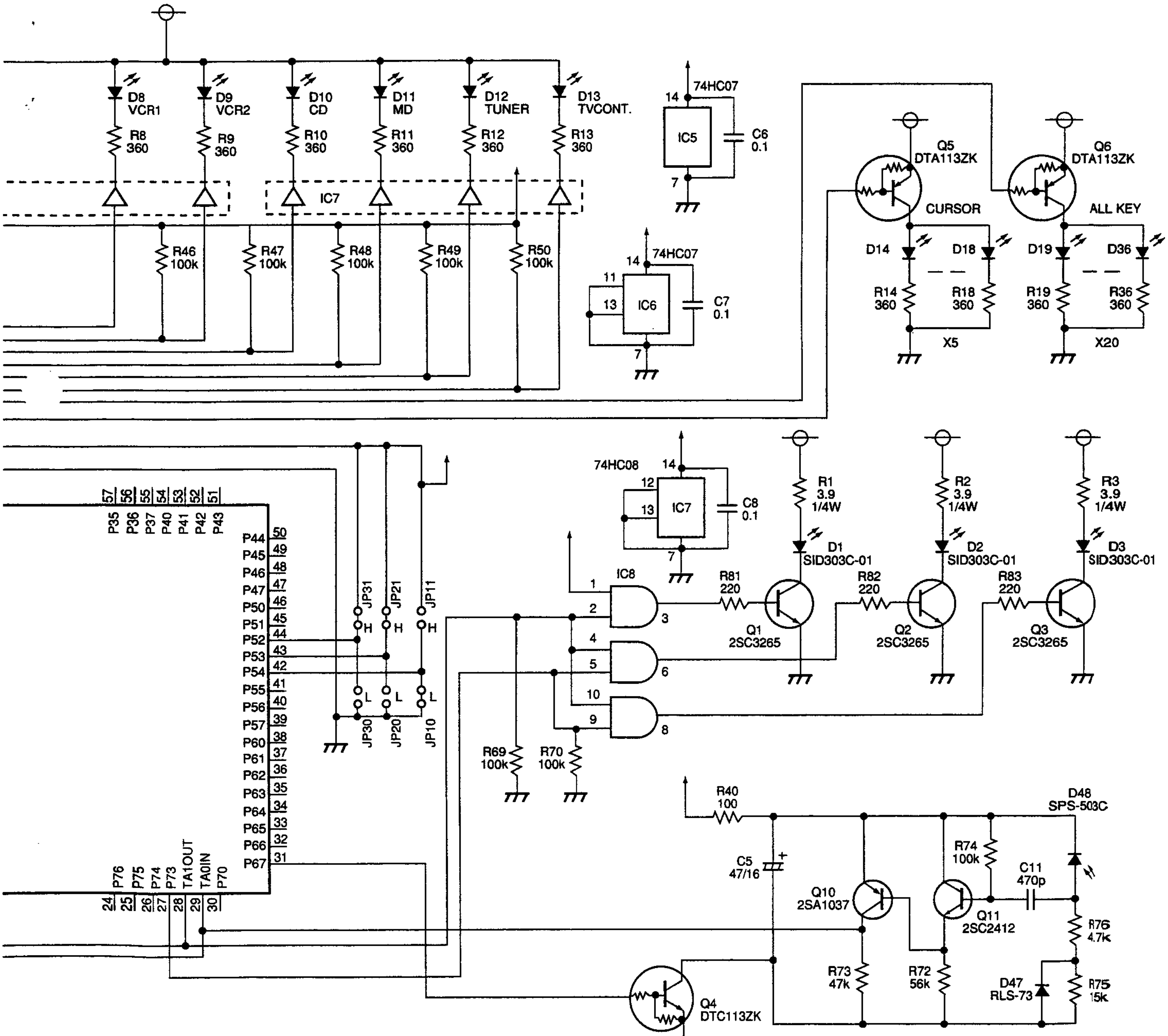

SW1
D48
C11
R76
R83
R75
D1
R82
D2
D3
Q10
R22
R21
R5
Q1
D47
R4
R20
R9
R8
R13
R19
IC5
74HC07
R11
R12
IC7
74HC08
C8
R10
R79
R69
R70
R3
R23
R26
IC1
M30622MA
100
1
81
50
31
80
JP30
JP21
JP20
JP10
T1
T4
R54
T3
Q5
R27
X1
8MHz
R25
Q8
R52
R58
R59
R60
R61
R62
C5
Q4
D45
C9
T5
C10
R53
R63
D53
R64
IC4
R68
R28
D54
D50
D51
R29
R30
R40
D55
D56
R56
R55
R65
R57
C2
R66
L1
IC3
R71
IC2
Q7
C6
C1
R32
R31
R15
R34
R14
R33
R17
R16
R18
R36
BAT
R35
R37
R38
SMK
RRC4000-75XXR 401/RRC-201-05R (A) 011

Open (Remove)
JP11, 20, 30,

SIDE B

7.3.2.3 SCHEMATIC DIAGRAM


D4, D5 : FA1111C
D6-D18 : BR1102W
D4 M.OPE
D5 SYS OFF
D6 DVD/LD
D7 TV/SAT
R4 360
R5 360
R6 360
R7 360
IC6
R41 100k
R42 100k
R43 100k
R44 100k
R45 100k
R55 100k
R56 100k
R57 100k
R58 100k
R59 100k
R60 100k
R61 100k
R62 100k
SW1
NORMAL
SETUP
T1
T2
R63 100k
R64 100k
R65 100k
R66 100k
D49
D50
D51
D52
D53
D54
D55
D56
D49-D56 : 1SS294
IC1
M30622MA-787FP
P07
P06
P05
P04
P03
P02
P01
P00
P107
P106
P105
P104
P103
P102
P101
AVSS
P100
VREF
AVCC
P97
P10
P11
P12
P13
P14
P15
P16
P17
P20
P21
P22
P23
P24
P25
P26
P27
VSS
P30
VCC
P31
P32
P33
P34
P96
P95
P94
P93
P92
P91
TB0 IN
BYTE
CNVSS
P87
P86
RESET
XOUT
VSS
XIN
VCC
P85/NMI
INT2
INT1
INT0
P81
P80
P77
T4
T3
T5
C10 1
R51 3.3k
Q8 2SC2712
C5 0.1
D45 RLS-73
R52 47k
R54 100k
X1 8MHz
R53 330k
C3 0.1
T6
T7
BATTERY
C1 1000/6.3
L1 47µH
D46 1SS344
S-8322AGMP-DOG-T2
IC2 3.3V
NC
Q7 2SK1959
R71 100
IC3 1.5V
CMOS
S-80715AL-AC-T1
C2 47/16
R67 10
T8
C9 0.1F
Q9 2SK2009
R68 100
IC4 1.8V
CMOS
S-80718AL-AF-T1


D8 VCR1
D9 VCR2
D10 CD
D11 MD
D12 TUNER
D13 TVCONT.
R8 360
R9 360
R10 360
R11 360
R12 360
R13 360
IC7
R46 100k
R47 100k
R48 100k
R49 100k
R50 100k
74HC07
IC5
C6 0.1
IC6
C7 0.1
Q5 DTA113ZK
CURSOR
Q6 DTA113ZK
ALL KEY
D14
D18
D19
D36
R14 360
R18 360
R19 360
R36 360
X5
X20
74HC08
C8 0.1
R1 3.9 1/4W
R2 3.9 1/4W
R3 3.9 1/4W
D1 SID303C-01
D2 SID303C-01
D3 SID303C-01
IC8
R81 220
R82 220
R83 220
Q1 2SC3265
Q2 2SC3265
Q3 2SC3265
JP31
JP21
JP11
JP30
JP20
JP10
H
L
R69 100k
R70 100k
P35 P36 P37 P40 P41 P42 P43
P44 P45 P46 P47 P50 P51 P52 P53 P54 P55 P56 P57 P60 P61 P62 P63 P64 P65 P66 P67
P76 P75 P74 P73 TA1OUT TA0IN P70
R40 100
D48 SPS-503C
C5 47/16
Q10 2SA1037
Q11 2SC2412
R74 100k
C11 470p
R76 4.7k
R73 47k
R72 56k
D47 RLS-73
R75 15k
Q4 DTC113ZK

MODEL SWITCH

Model	JP10	JP11	JP20	JP21	JP30	JP31
AXD7257, AXD7278	–	○	–	○	–	○
AXD7258, AXD7279	–	○	–	○	○	–
AXD7259	–	○	○	–	–	○
AXD7266	–	○	○	–	○	–
AXD7273	○	–	–	○	–	○
AXD7275	○	–	–	○	○	–

7.3.2.4 PCB PARTS LIST

NOTES: ● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

● *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56×10^1 → 561 .... RD1/4PU $\boxed{5}\boxed{6}\boxed{1}$ J
47k Ω → 47×10^3 → 473 .... RD1/4PU $\boxed{4}\boxed{7}\boxed{3}$ J
0.5 Ω → R50 .... RN2H $\boxed{R}\boxed{5}\boxed{0}$ K
1 Ω → 1R0 .... RS1P $\boxed{1}\boxed{R}\boxed{0}$ K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562×10^1 → 5621 .... RN1/4PC $\boxed{5}\boxed{6}\boxed{2}\boxed{1}$ F

Mark	No.	Description	Part No.
	IC1		M30622MA-787FP
	IC2		S-8322AGMP-DOG-T2
	IC3		S-80715AL-AC-T1
	IC4		S-80718AL-AF-T1
	IC5,IC6		74HC07
	IC7		74HC08
	Q1-Q3		2SC3265
	Q4		DTC113ZK
	Q5,Q6		DTA113ZK
	Q7		2SK1959
	Q8		2SC2712
	Q9		2SK2009
	Q10		2SA1037
	Q11		2SC2412
	D1-D3		SID303C-01
	D6-D18		BR1102W
	D23-D36		CL190TD-CD
	D45,D47		RLS-73
	D46		1SS344
	D48		SPS-503C
	D49-D56		1SS294

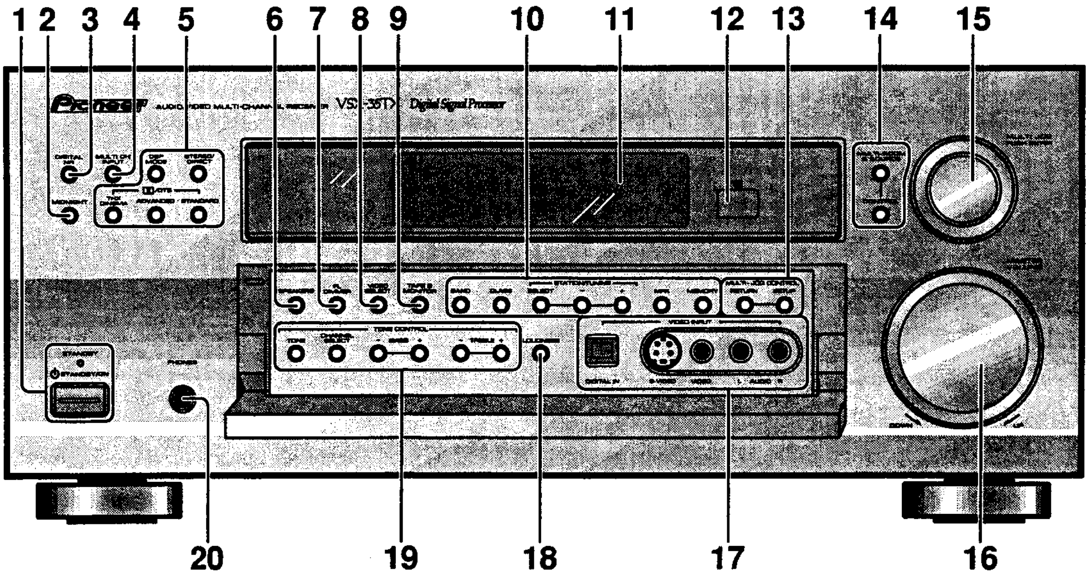
8. PANEL FACILITIES AND SPECIFICATIONS

8.1 PANEL FACILITIES

■ Front Section (VSX-35TX,VSX-33TX)

All the controls on the front panel are explained and/or referenced here. To open the front panel push gently on the lower third of the panel.

VSX-35TX


1
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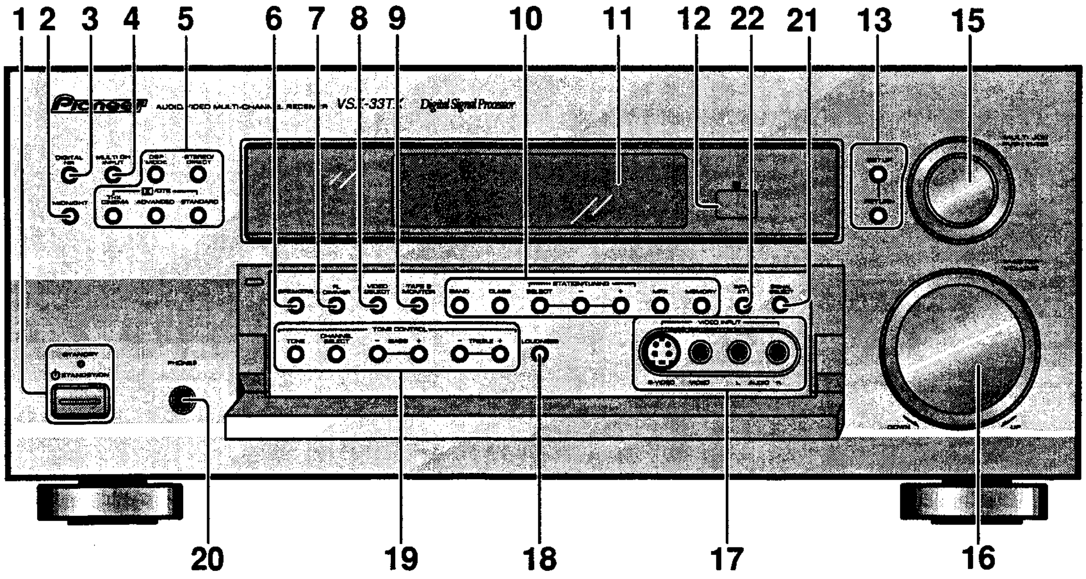
VSX-33TX


1
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12
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■ Front Section (for VSX-35TX and VSX-33TX)

1 **⏻ STANDBY/ON button**
Press to switch the receiver ON or into STANDBY mode.

STANDBY indicator
Lights when the receiver is in STANDBY mode. (Please note that this receiver consumes a small amount of power [1.0 W] in the standby mode.)

2 **MIDNIGHT button**
Switches the MIDNIGHT mode on or off (cannot be used in THX mode).

3 **DIGITAL NR button**
Switches the DIGITAL Noise Reduction on or off (cannot be used in THX mode).

4 **MULTI CH INPUT**
Use to hook up an external component that can decode other types of signals and input them into the VSX-35TX.

5 **DSP MODE button**
Press repeatedly to select a DSP sound mode. (HALL 1, HALL 2, JAZZ, DANCE, THEATER 1, or THEATER 2, 5/7 CH STEREO). Use these modes to produce surround sound from standard (two channel) stereo sources and create different listening environments.

STEREO/DIRECT button
Switches the receiver into STEREO mode if it was in a different sound mode (like ADVANCED THEATER) or toggles between DIRECT and STEREO mode. For more on STEREO mode.

DIRECT playback bypasses the tone controls and channel level for the most accurate reproduction of a program source.

DD / DTS buttons
THX CINEMA – Cycles through the THX CINEMA, THX SURROUND EX or THX AUTO sound modes. Use when listening THX-certified sources if you have THX-certified speaker setup or want to re-create a THX-style sound environment. It is also appropriate for Dolby Digital, Dolby Pro Logic or DTS sources.Those with surround back speakers can use all three THX modes, those without should use the THX CINEMA mode.

ADVANCED THEATER – Use to select one of the four Advanced Theater modes. Use to create certain types of sound environments when listening to Dolby Digital, Dolby Pro Logic or DTS sources.

STANDARD – Use for pure decoding of multi channel sources, especially Dolby Digital, Dolby Pro Logic or DTS software.

6 **SPEAKERS (A/B) button**
Use to select the speaker system. A is the primary setting. It plays all speakers hooked up to the A system. A & B setting only plays the front speakers of both the A & B systems and the sub-woofer. Multi channel sources will be down-mixed to these speakers so no sound will be lost. B setting only plays the front speakers connected to the B system and multi channel sources will be down-mixed to these two speakers. The button cycles through the speaker systems as follows: A⇨B⇨A&B⇨off

7 **FL DIMMER button**
Use to adjust the brightness of the fluorescent display (FL = fluorescent display).
Four levels of the brightness ranging from very dim to very bright can be selected. Each press changes the brightness of the display.

8 **VIDEO SELECT button**
Switches the receiver between the various types of video input while keeping the audio input the same.

9 **TAPE 2 MONITOR button**
Selects the tape deck (MD recorder, etc.) connected to the TAPE 2 MONITOR inputs/outputs. Allows monitoring of a recording as it's being made.

10 **TUNER CONTROL buttons**
BAND – Press to select the AM or FM band.

CLASS – Press repeatedly to switch the preset station classes.

TUNING SELECT – Switches the STATION/TUNING button between station memory and frequency select modes.

STATION –/+ – Selects station memories when using the tuner.

TUNING –/+ – Selects the frequency when using the tuner.

MPX – Press to switch between auto stereo and MONO reception of FM broadcasts. When the broadcast signal is weak, selecting MONO will improve the sound quality.

MEMORY – Press to start the memorization of a preset station.

11 **Display**

12 **Remote sensor**
Point the remote control toward the remote sensor to operate the receiver.

13 **MULTI-JOG CONTROL buttons**
SETUP – Press to switch the setup mode.

RETURN – Press to move back one step in the SETUP process.

14 MULTI-ROOM & SOURCE button (VSX-33TX Only)

Press to use the multi room feature (it's best to have an optional PIONEER Multi-Room Remote Sensor Unit MR-100 or another IR receiver for this feature).

CONTROL button Used together with the INPUT SELECTOR to select the function to select the volume of the MULTI ROOM system.

15 MULTI JOG dial

You can use this dial for three purposes. In normal mode turn it to select a source component or press it to switch the display between function mode and sound mode. When you press the SETUP button (13), you can use it to perform SETUP operations (turn to select, push to enter).

The source indicators show the current component:

DVD/LD – DVD player or LaserDisc player.

TV/SAT– TV or satellite tuner.

CD – Compact Disc player.

CD-R/TAPE1/MD – CD recorder, tape deck or Mini Disc recorder connected to CD-R/TAPE 1/MD inputs/outputs.

TUNER – The built-in tuner.

PHONO – Turntable.

VIDEO – Video camera (etc.) connected to the VIDEO INPUT on the front panel.

VCR1/DVR – Video cassette recorder connected to VCR1/DVR inputs.

VCR 2 – Video cassette recorder or other component connected to VCR 2 inputs.

16 MASTER VOLUME

Adjusts the overall receiver volume.

17 VIDEO INPUT jacks

DIGITAL IN: (VSX-35TX Only)

Optical video input for connecting a video camera (or video game, portable DVD, etc.), that has an optical out.

S-VIDEO : Video input for connecting a video camera (etc.), that has an S-Video out.

VIDEO / AUDIO (L/R) : Video input for connecting a video camera, etc. that has standard video/audio outputs.

18 LOUDNESS button

Switches the LOUDNESS mode on or off (cannot be used in THX mode).

19 TONE button

This button has two functions. Firstly, it switches between TONE on and TONE BYPASS, which bypasses the tone circuitry. Secondly, you need to press the button before using the CHANNEL SELECT buttons to adjust the BASS & TREBLE (cannot be used in THX mode).

CHANNEL SELECT button

Switches the tone adjust controls between the FRONT, CENTER, SURROUND and SURROUND BACK speakers. You can then use the BASS and TREBLE controls to adjust the sound.

BASS (–/+) button

Use to adjust low frequencies.

TREBLE (–/+) button

Use to adjust the high frequencies.

20 PHONES jack

Connect headphones for private listening (no sound will be heard through the speakers).

21 SIGNAL SELECT button (VSX-33TX Only)

Press SIGNAL SELECT repeatedly to select one of the following:

ANALOG – Analog signal.

DIGITAL – Digital signal (DVD/LD, TV/SAT, CD, CD-R/TAPE 1/MD, VCR 1/DVR, VCR 2).

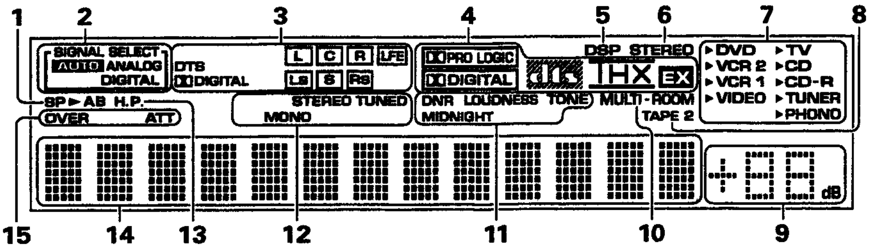
AUTO –This is the default. If there are both analog, digital, the receiver automatically selects the best possible signal.

22 INPUT ATT button (VSX-33TX Only)

Use to lower the input level of an analog signal that is too powerful, thus causing the sound to distort (the OVER indicator will light when this is the case).

■ Display (for VSX-35TX)

All the display information is explained and /or referenced here.



1 **Speaker indicators**
Light to indicate the current speaker system, A and/or B.

2 **SIGNAL SELECT indicators**
Light to indicate the input signal you selected.

ANALOG – Lights when analog signals are assigned.
DIGITAL – Lights when digital audio signals are selected.
AUTO – Lights when the receiver is set to select the input signal automatically.

3 **Program Format indicator**
DD DIGITAL – Lights when a source with Dolby Digital signals is played.

DTS – Lights when a source with DTS audio signals is played.

For Dolby Digital or DTS sources: These indicators change according to which channels are active in the source. When all three LS (left surround), S (surround) and RS (right surround) light at the same time it means a SURROUND EX source or a DTS ES source with surround back channels is being used.

L – Left front channel.
C – Center channel.
R – Right front channel.
LS – Left surround channel.
S – Surround channel (mono).
RS – Right surround channel.
LFE – Low Frequency Effects channel.

4 **DD/dts mode indicators**
DD DIGITAL – Indicates multi channel playback of a Dolby Digital source.

DD PRO LOGIC – Lights when Dolby Pro Logic decoding is switched on.

dts – When the DD/dts mode on the receiver is on, this indicator lights to indicate playback of a DTS signal.

THX – Lights when the HOME THX CINEMA mode is selected.

EX – Lights when decoding a Surround EX source.

5 **DSP indicator**
Light when a DSP or Advanced Theater mode is selected.

6 **STEREO indicator**
Lights when a STEREO mode is selected.

7 **Source indicators**
▶ indicator lights at the selecting source.

8 **TAPE 2 indicator**
Lights when the TAPE 2 monitor is on.

9 **MASTER VOLUME indicator**
Displays current volume level.

10 **MULTI-ROOM indicator**
Lights when the Multi-room system is on.

11 **Sound control indicators**
DNR – Lights when the digital NR is on.
LOUDNESS – Lights when the Loudness is on.
TONE – Lights when the Tone control is on.
MIDNIGHT – Lights when the Midnight mode is on.

12 **Tuner indicators**
STEREO – Lights when a FM stereo broadcast is received in the auto stereo mode.
TUNED – Lights when a broadcast is received.
MONO – Lights when the tuner is set to receive FM broadcasts with the mono mode selected.

13 **H.P. (headphones)**
Lights when headphones are connected to the PHONES jack (speakers systems A and B both turn off automatically).

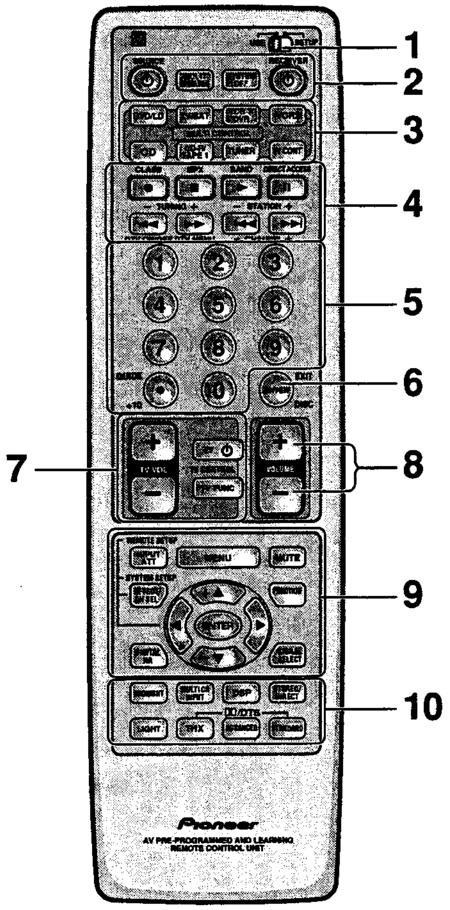
14 **Character display**
Shows current mode, status, etc.

15 **Analog level indicators**
OVER – When the source signal is analog, this lights if the signal is in danger of distorting. Press INPUT ATT on the remote control to lower the signal level.

ATT – Lights when INPUT ATT is used to reduce the level of the analog source signal.

■ Remote Control Unit (VSX-35TX)

These pages describe the buttons on the remote control used to operate the receiver.



1 **USE/SETUP slide switch**
Use to put the remote into receiver SETUP, or receiver USE mode.

2 **⏻ SOURCE button**
Use to turn on the power of your other components after you have recalled or taught the signals to this remote control.

MULTI OPERATION button
Use this button to start the MULTI OPERATION mode. for how to program and use the MULTI OPERATION mode.

SYSTEM OFF button
This button turns off components in two ways. First, when pressed it will turn off all PIONEER components. Secondly, any component that has programmed into the MULTI OPERATIONS settings will also be turned off

For example : If you programmed power on for your TV and VCR, pressing the SYSTEM OFF button will turn off these components even if they are not PIONEER products.

⏻ RECEIVER button
Press to turn power of the receiver on or to STANDBY (off).

3 **MULTI CONTROL buttons**
Use these to select a source and the corresponding remote operation mode.

For example, pressing TUNER selects the built in tuner and sets the remote operation to the tuner functions.

4 **Component Control buttons**
Use to control specific components, like a CD player or DVD player, after you have programmed the remote control to do these operations and the remote is put in that operation mode.

[Tuner control]

CLASS – Press repeatedly to switch the preset station classes.
MPX – Press to switch between auto stereo and MONO reception of FM broadcasts.
BAND – Press to select AM or FM band.
DIRECT ACCESS – Press to activate the direct access tuning mode.
TUNING +/– – Use to manually tune in to radio stations.
STATION +/– – Use to choose programmed radio stations.

5 **Number buttons**
These buttons can perform a variety of different functions depending on the remote operation mode. They are most useful for CD and tuner operations.

6 **ENTER button**
Use for controlling other components only.

7 **TV CONTROL buttons**
The following buttons are used to control the TV only and can be used no matter what function the remote control is set to.

TV ⏻ button – Press to turn the power of the TV on/off.

TV FUNC button – Press TV FUNC to select the TV for remote control operation.

TV VOL +/– button – Use to adjust the TV volume.

8 MASTER VOLUME buttons

Use to raise or lower the volume of the receiver.

9 INPUT ATT button (when USE mode is selected)

Use to lower the input level of an analog signal that is too powerful, thus causing the sound to distort (the OVERLOAD indicactor will light).

REMOTE SETUP button (when SETUP mode is selected)

Use to customize the remote control functions and the remote control itself. (See "Setting Up the Remote Control to Control Other Components" , "Multi Operations"

MENU button

Use to get the various menus for your DVD, TV or DTV.

MUTE button

Press to mute or restore the volume.

EFFECT/CH SEL (when USE mode is selected) button .

EFFECT – Use these buttons to increase or decrease the amount of effect applied in a DSP or Advanced Theater mode. When the amount of effect is increased in a DSP/Advanced Theater mode the characteristics of that mode become stronger and more noticeable. The scale ranges from 10-90 with 70 as the default setting. First turn on the DSP/Advanced Theater you want (by pressing the DSP/ Advanced Theater button until you get the mode) and then increase or decrease the amount of effect.

CH SEL – You may want to adjust the channels when listening to some sound sources. Use this button to select the channel you want to adjust.

SYSTEM SET UP button (when SETUP mode is selected)

Use to set up the speaker and sound systems. For more information see "Setting up for Surround Sound" .

FUNCTION button

Press to select a source. The button will cycle through all the possible sources.

▲(+)/▼(–)/◄/►/ENTER buttons

Use to operate the on-screen menu on your TV screen and enter commands when setting up surround sound, speakers levels & settings, and other set up features .

They also can be used to operate DVD players, DTVs and other components after you have input the components preset codes. Specific use of these buttons is described in conjunction with the operations they perform. For more information see each individual section.

DIGITAL NR button

Press to switch Digital NR on or off.

SIGNAL SELECT button

Press SIGNAL SELECT repeatedly to select one of the following:

ANALOG – Analog signal.

DIGITAL – Digital signal (DVD/LD, TV/SAT, CD, CD-R/TAPE 1, VCR 1/DVR, VCR 2, VIDEO).

AUTO –This is the default. If there are analog, or digital signals input the receiver automatically selects the best possible signal.

10 MIDNIGHT button

Switches the MIDNIGHT mode on or off.

MULTI CH INPUT button .

Press to switch to multi channel input mode.

DSP button

Press to select a DSP sound mode. Repeated presses cycle through the diffferent possible DSP modes.

STEREO/DIRECT button

Switches the receiver into STEREO mode if it was in a different sound mode (like ADVANCED THEATER) or or toggles between DIRECT and STEREO mode. For more on STEREO mode .

DIRECT playback bypasses the tone controls and channel level for the most accurate reproduction of a program source.

LIGHT button

Press to light the remote control buttons.

DD /DTS buttons

Press these buttons to put the receiver in the selected sound mode. For more information on these specific sound modes .

8.2 SPECIFICATIONS

Amplifier Section

VSX-35TX :

Continuous average power output of 90 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion (front).**

Continuous Power Output
Front .... 90 W + 90 W (20 Hz – 20 kHz, 0.09 %, 8 Ω)
Center .... 90 W (20 Hz – 20 kHz, 0.09 %, 8 Ω)
Rear .... 90 W + 90 W (20 Hz – 20 kHz, 0.09 %, 8 Ω)
Input (Sensitivity/Impedance)
PHONO MM .... 4.7 mV/47 kΩ
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD,
CD-R/TAPE 1/MD, TAPE 2 .... 335 mV/47 kΩ
Phono Overload level (T.H.D.0.1 %, 1kHz)
PHONO MM .... 120 mV
Frequency Response
PHONO MM .... 20 Hz to 20,000 Hz ± 0.3 dB
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD,
CD-R/TAPE 1/MD, TAPE 2 ...... 5 Hz to 100,000 Hz dB
Output (Level/Impedance)
VCR 1/DVR REC, VCR 2 REC, CD-R/TAPE 1/MD REC,
TAPE 2 REC .... 335 mV/2.2 kΩ
Tone Control
BASS .... ± 6 dB (100 Hz)
TREBLE .... ± 6 dB (10 kHz)
LOUDNESS .... +10 dB (100 Hz/10 kHz)
Signal-to-Noise Ratio (IHF, short circuited, A network)
PHONO MM .... 80 dB
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD,
CD-R/TAPE 1/MD, TAPE 2, MULTI CH IN .... 101 dB
Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]
PHONO MM .... 80 dB
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD,
CD-R/TAPE 1/MD, TAPE 2 .... 83 dB

* *Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.*
** *Measured by Audio Spectrum Analyzer.*

VIDEO Section (S jack)

Input (Sensitivity/Impedance)
VCR 1/DVR, VCR 2, VIDEO, DVD/LD, TV/SAT
Luminance signal (Y) .... 1 Vp-p/75 Ω
Chrominance signal (C) .... 0.286 Vp-p/75 Ω
Output (Level/Impedance)
VCR 1/DVR, VCR 2, MONITOR OUT
Luminance signal (Y) .... 1 Vp-p/75 Ω
Chrominance signal (C) .... 0.286 Vp-p/75 Ω
Frequency Response
VCR 1/DVR, VCR 2, VIDEO, DVD/LD, TV/SAT
Luminance signal (Y) .... 5 Hz to 10 MHz dB
Signal-to-Noise Ratio
Luminance signal (Y) .... 65 dB

Component Video Section

Input (Sensitivity)
Y .... 1 Vp-p/75 Ω
PB/PR .... 0.7 V
Output (Level/Impedance)
Y .... 1 Vp-p/75 Ω
PB/PR .... 0.7 V
Frequency Response
Y .... 5 Hz to 20 MHz dB
PB/PR .... 5 Hz to 13 MHz dB

VIDEO Section (Composite)

Input (Sensitivity/Impedance)
VCR 1/DVR, VCR 2, VIDEO, DVD/LD,
TV/SAT .... 1 Vp-p/75 Ω
Output (Level/Impedance)
VCR 1/DVR, VCR 2, MONITOR OUT,
MONITOR OUT2 .... 1 Vp-p/75 Ω
Frequency Response
VCR 1/DVR, VCR 2, TV/SAT, DVD/LD
VIDEO→MONITOR OUT, ... 5 Hz to 10 MHz dB
Signal-to-Noise Ratio .... 65 dB

FM Tuner Section

Frequency Range .... 87.5 MHz to 108 MHz
Usable Sensitivity .... Mono: 13.2 dBf, IHF (1.3 µV/75 Ω)
50 dB Quieting Sensitivity .... Mono: 20.2 dBf
Stereo: 38.6 dBf
Signal-to-Noise Ratio .... Mono: 73 dB (at 85 dBf)
Stereo: 70 dB (at 85 dBf)
Distortion .... Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity .... 60 dB (400 kHz)
Stereo Separation .... 40 dB (1 kHz)
Frequency Response .... 30 Hz to 15 kHz (± 1) dB
Antenna Input .... 75 Ω unbalanced

AM Tuner Section

Frequency Range .... 530 kHz to 1,700 kHz
Sensitivity (IHF, Loop antenna) .... 350 µV/m
Selectivity .... 25 dB
Signal-to-Noise Ratio .... 50 dB
Antenna .... Loop antenna

Miscellaneous

Power Requirements .... AC 120 V, 60 Hz
Power Consumption .... 400 W, 550 VA
Power Consumption in Standby mode .... 1.0 W
AC Outlet SWITCHED (x2) .... Total 100 W (0.8 A) MAX
Dimensions .... 420 (W) x 173 (H) x 463 (D) mm
(16-9/16 (W) x 6-13/16 (H) x 18-1/4 (D) in.)
Weight (without package) .... 15.0 kg (33 lb 1 oz)

Furnished Parts

FM wire Antenna 1
AM loop Antenna 1
"AA" IEC LR6 batteries 2
Remote Control Unit 1
Operating Instructions 1

NOTE:
Specifications and the design are subject to possible modifications without notice, due to improvements.

Amplifier Section
VSX-33TX :

Continuous average power output of 80 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 %** total harmonic distortion (front).

Continuous Power Output	
Front	80 W + 80 W (20Hz-20 kHz, 0.09 %, 8 Ω)
Center	80 W (20Hz-20 kHz, 0.09 %, 8 Ω)
Rear	80 W + 80 W (20Hz-20 kHz, 0.09 %, 8 Ω)
Input (Sensitivity/Impedance)	
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1/MD, TAPE 2	335 mV/47 kΩ
Frequency Response	
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1/MD, TAPE 2	5 Hz to 100,000 Hz dB
VCR 1/DVR REC, VCR 2 REC, CD-R/TAPE 1/MD REC, TAPE 2 REC	335 mV/2.2 kΩ
Tone Control	
BASS	± 6 dB (100 Hz)
TREBLE	± 6 dB (10 kHz)
LOUDNESS	+10 dB (100 Hz/10 kHz)
Signal-to-Noise Ratio (IHF, short circuited, A network)	
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1/MD, TAPE 2	101 dB
MULTI CH IN	101 dB
Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]	
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1/MD, TAPE 2	83 dB

* *Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.*

** *Measured by Audio Spectrum Analyzer.*

VIDEO Section (S jack)

Input (Sensitivity/Impedance)	
VCR 1/DVR, VCR 2, VIDEO, DVD/LD, TV/SAT	
Luminance signal (Y)	1 Vp-p/75 Ω
Chrominance signal (C)	0.286 Vp-p/75 Ω
Output (Level/Impedance)	
VCR 1/DVR, VCR 2, MONITOR OUT	
Luminance signal (Y)	1 Vp-p/75 Ω
Chrominance signal (C)	0.286 Vp-p/75 Ω
Frequency Response	
VCR 1/DVR, VCR 2, VIDEO, DVD/LD, TV/SAT	
Luminance signal (Y)	5 Hz to 10 MHz dB
Signal-to-Noise Ratio	
Luminance signal (Y)	65 dB

VIDEO Section (Composite)

Input (Sensitivity/Impedance)	
VCR 1/DVR, VCR 2, VIDEO, DVD/LD, TV/SAT	1 Vp-p/75 Ω
Output (Level/Impedance)	
VCR 1/DVR, VCR 2, MONITOR OUT	1 Vp-p/75 Ω
Frequency Response	
VCR 1/DVR, VCR 2, TV/SAT, DVD/LD VIDEO→MONITOR OUT,	5 Hz to 10 MHz dB
Signal-to-Noise Ratio	65 dB

FM Tuner Section

Frequency Range	87.5 MHz to 108 MHz
Usable Sensitivity	Mono: 13.2 dBf, IHF (1.3 µV/75 Ω)
50 dB Quieting Sensitivity	Mono: 20.2 dBf Stereo: 38.6 dBf
Signal-to-Noise Ratio	Mono: 73 dB (at 85 dBf) Stereo: 70 dB (at 85 dBf)
Distortion	Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity	60 dB (400 kHz)
Stereo Separation	40 dB (1 kHz)
Frequency Response	30 Hz to 15 kHz (± 1) dB
Antenna Input	75 Ω unbalanced

AM Tuner Section

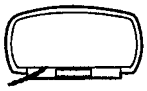
Frequency Range	530 kHz to 1,700 kHz
Sensitivity (IHF, Loop antenna)	350 µV/m
Selectivity	25 dB
Signal-to-Noise Ratio	50 dB
Antenna	Loop antenna

Miscellaneous

Power Requirements	AC 120 V, 60 Hz
Power Consumption	400 W, 550 VA
Power Consumption in Standby mode	1.0 W
AC Outlet SWITCHED (x2)	Total 100 W (0.8 A) MAX
Dimensions	420 (W) x 173 (H) x 463 (D) mm (16-9/16 (W) x 6-13/16 (H) x 18-1/4 (D) in.)
Weight (without package)	14.6 kg (32 lb 3 oz)

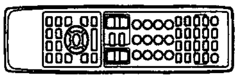
■ Accessories (VSX-35TX / VSX-33TX)

FM wire antenna (ADH7004)



AM loop antenna (ATB7009)

"AA" IEC LR6 batteries x 2



Remote control unit
(Remocon35 : AXD7266)
VSX-35TX
(Remocon33 : AXD7267)
VSX-33TX

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